

**CONSTRUCTION**  
**OF**  
**THE PARDEE DAM**  
**MOKELUMNE RIVER PROJECT**  
**VALLEY SPRINGS, CALIF.**  
**1927 - 1929**

**ATKINSON CONSTRUCTION COMPANY**  
**CONTRACTORS**

**GEO. C. PARDEE**  
President  
East Bay Municipal  
Utility District





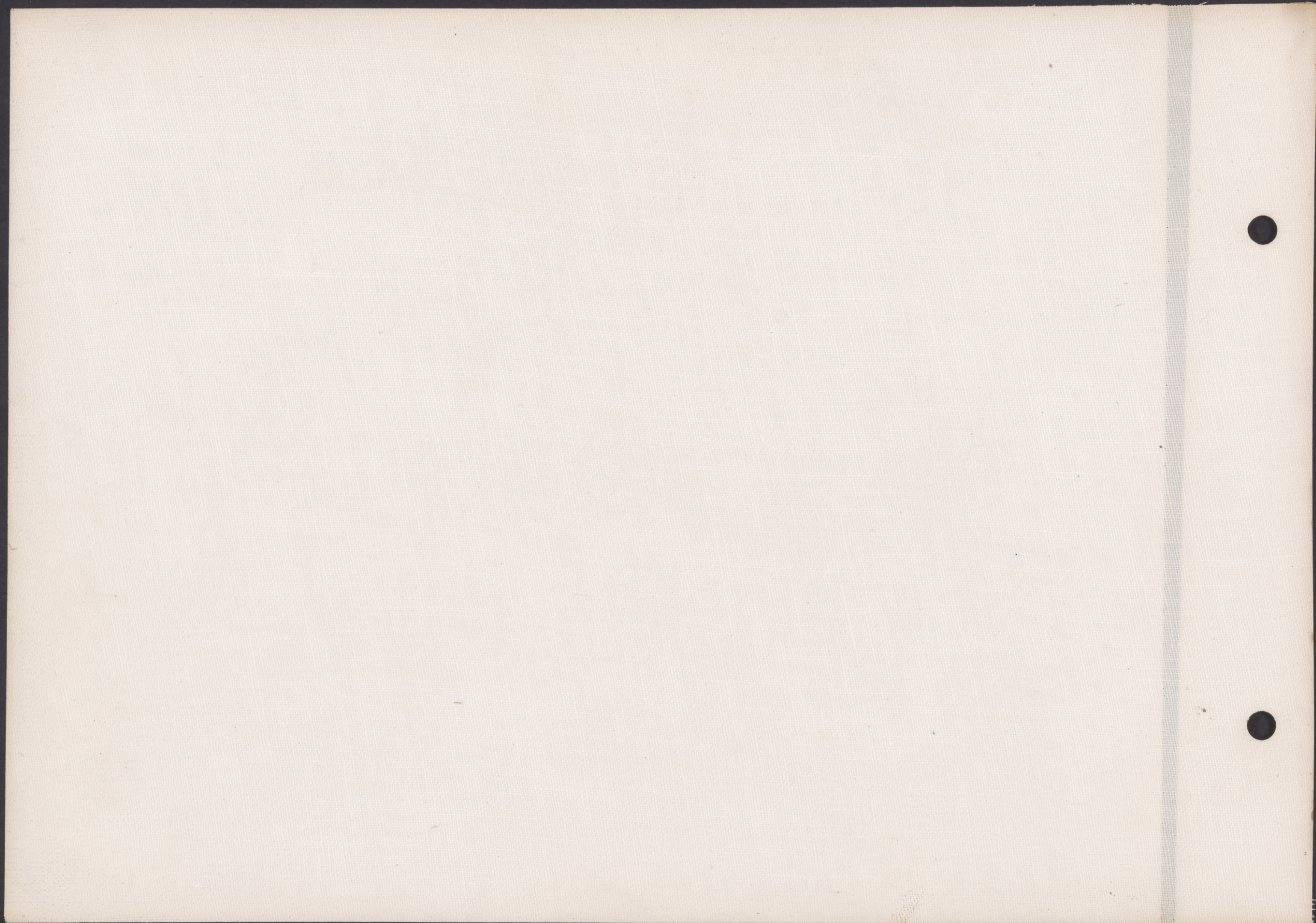




DAM SITE BEFORE CONSTRUCTION LOOKING DOWN STREAM  
PARDEE DAM ATKINSON CONSTRUCTION CO. AUG. 25 1927.

14-1-246









RESUMPTION OF EXCAVATION AFTER FIRST FLOOD  
35 PARDE DAM ATKINSON CONSTRUCTION CO

OCT. 28 1927









GENERAL VIEW OF RIVER CONTROL OPERATIONS SHOWING PRIMARY AND SECONDARY UPSTREAM  
AND DOWNSTREAM COFFER DAM  
115 PARDEE DAM ATKINSON CONSTRUCTION CO. 1928









TRAMWAY LOADING TERMINAL AT LEFT - GRAVEL PLANT STOCK PILE AT RIGHT  
127 PARDEE DAM ATKINSON CONSTRUCTION CO

JAN. 12 1928





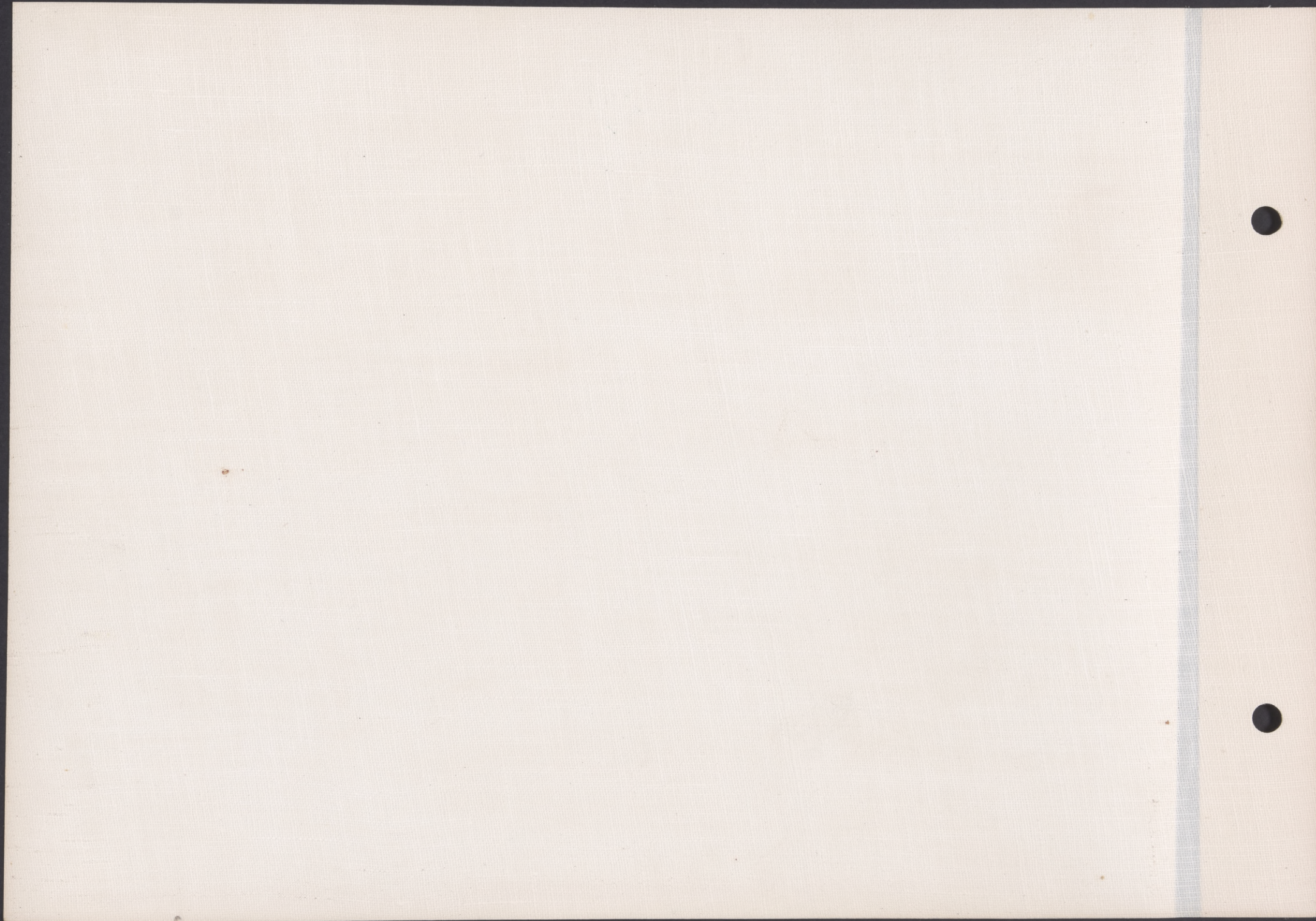




GRAVEL PLANT STOCK PILE STORAGE AT LAAT - TRAMWAY LOADING TERMINAL BEYOND.  
129 PARDEE DAM ATKINSON CONSTRUCTION CO.

JAN. 12 1928









GENERAL VIEW GRAVEL PLANT - ROCK TRAINS DUMPING IN BOOT AT LEFT - SCREENING PLANT AT RIGHT.  
135 PARDEE DAM ATKINSON CONSTRUCTION CO. JAN. 17 1928



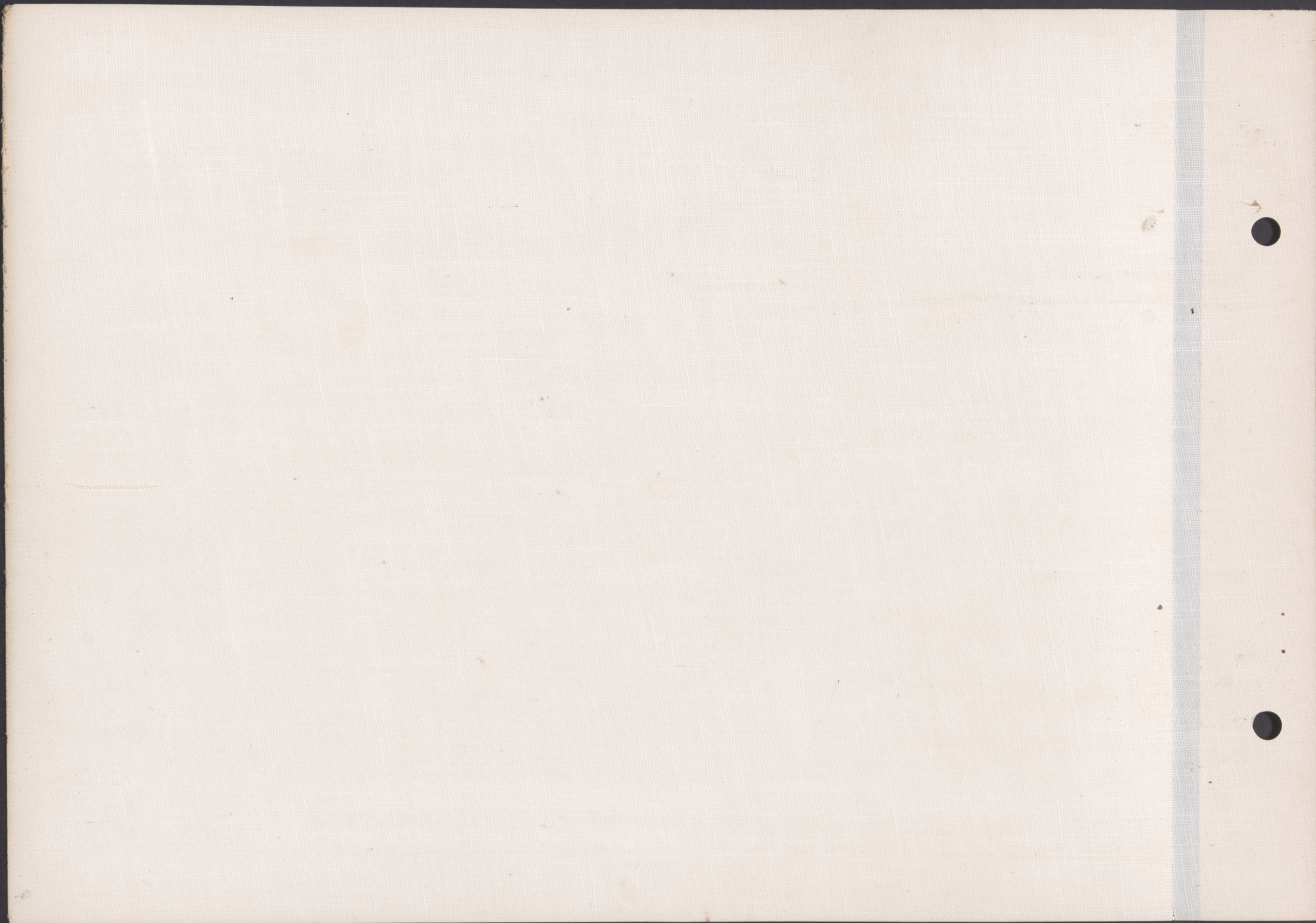






GENERAL VIEW GRAVEL PLANT TRACK LAYOUT - 3 1/4 YD. MONIGHAN DRAGLINE AT LEFT  
138 PARDEE DAM ATKINSON CONSTRUCTION CO. JAN. 17 1928



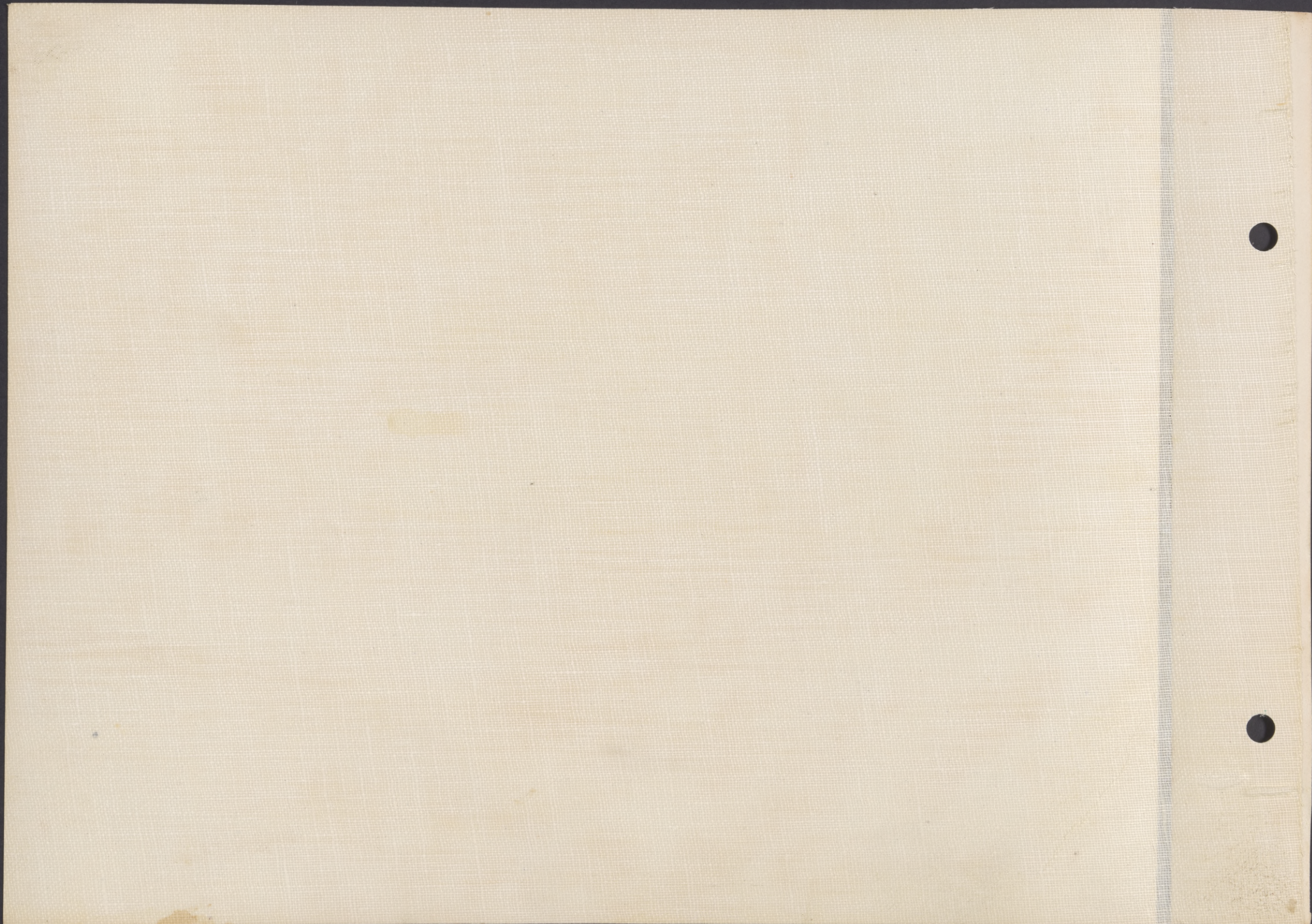






POURING CONCRETE - AT LEFT - CLEARING BEDROCK - AT RIGHT - DRAINING - IN THE BACKGROUND - OPERATION  
OBSERVE - DOWNSTREAM - PUMP - AT DEWATERING - PUMP - AT RIGHT - CONSTRUCTION - JUNE 5, 1928



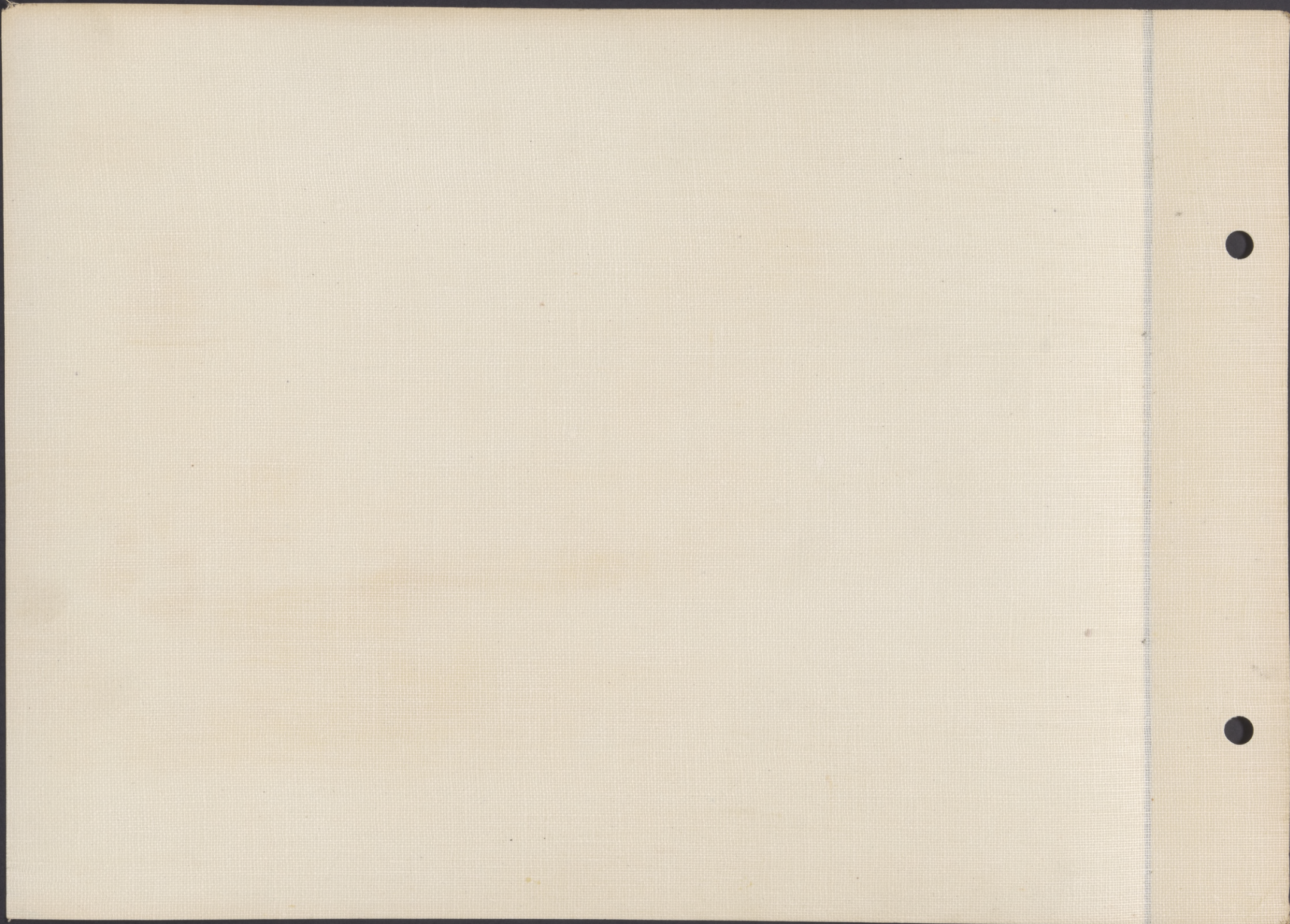






GENERAL VIEW RIVER CONTROL OPERATIONS SHOWING  
PLACEMENT OF CONCRETE HOISTING TOWER HEAD  
PIECE AFTER TWELFTH DAY OF ERECTION.  
PARDEE DAM  
ATKINSON CONSTRUCTION CO.  
181 MARCH 10 1928







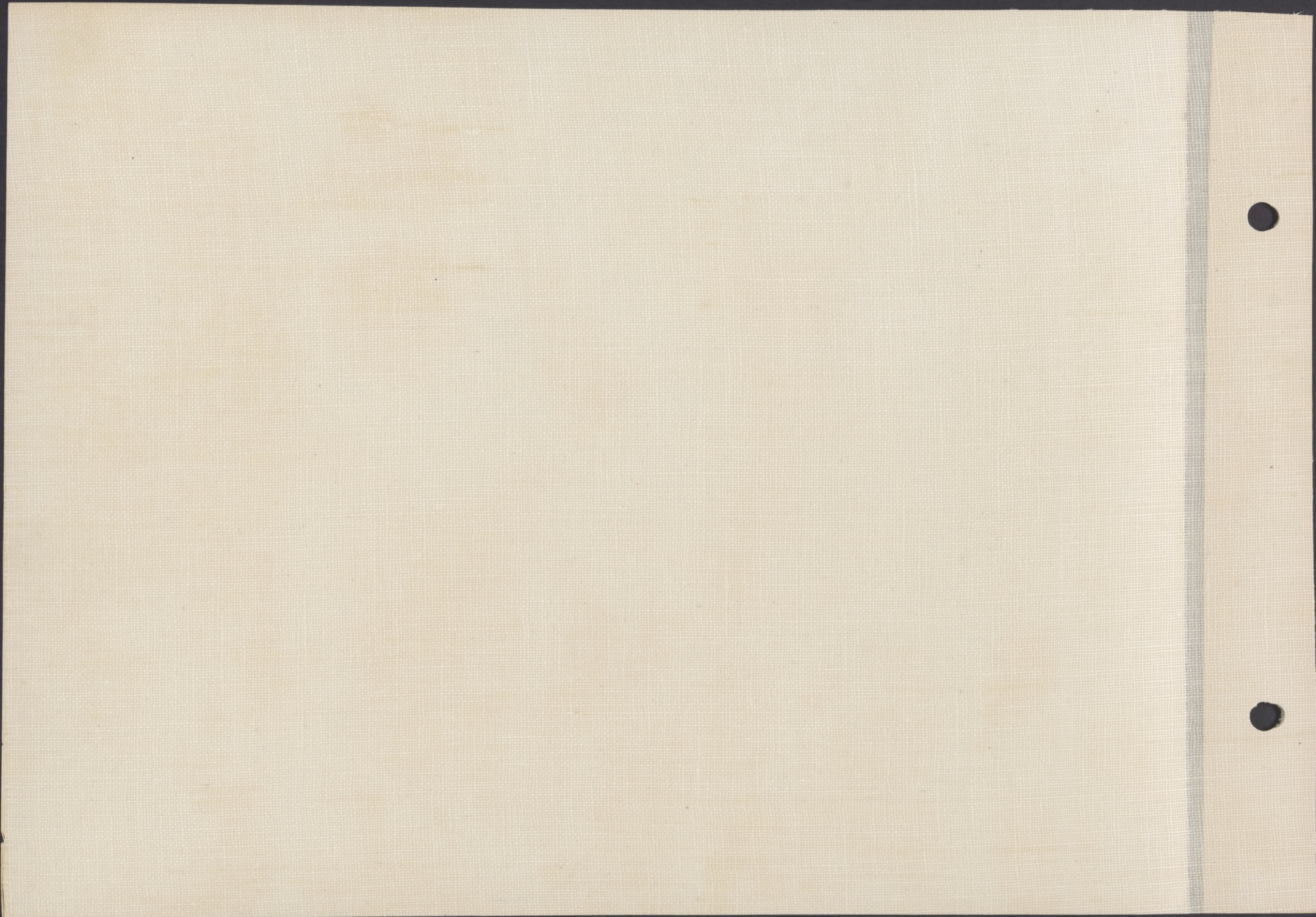


191  
RIVER CONTROL AND FOUNDATION OPERATIONS THE DAY BEFORE OVERTOPPING AND WASHOUT  
BY A 100 FT. FLOOD.  
PARDEE DAM

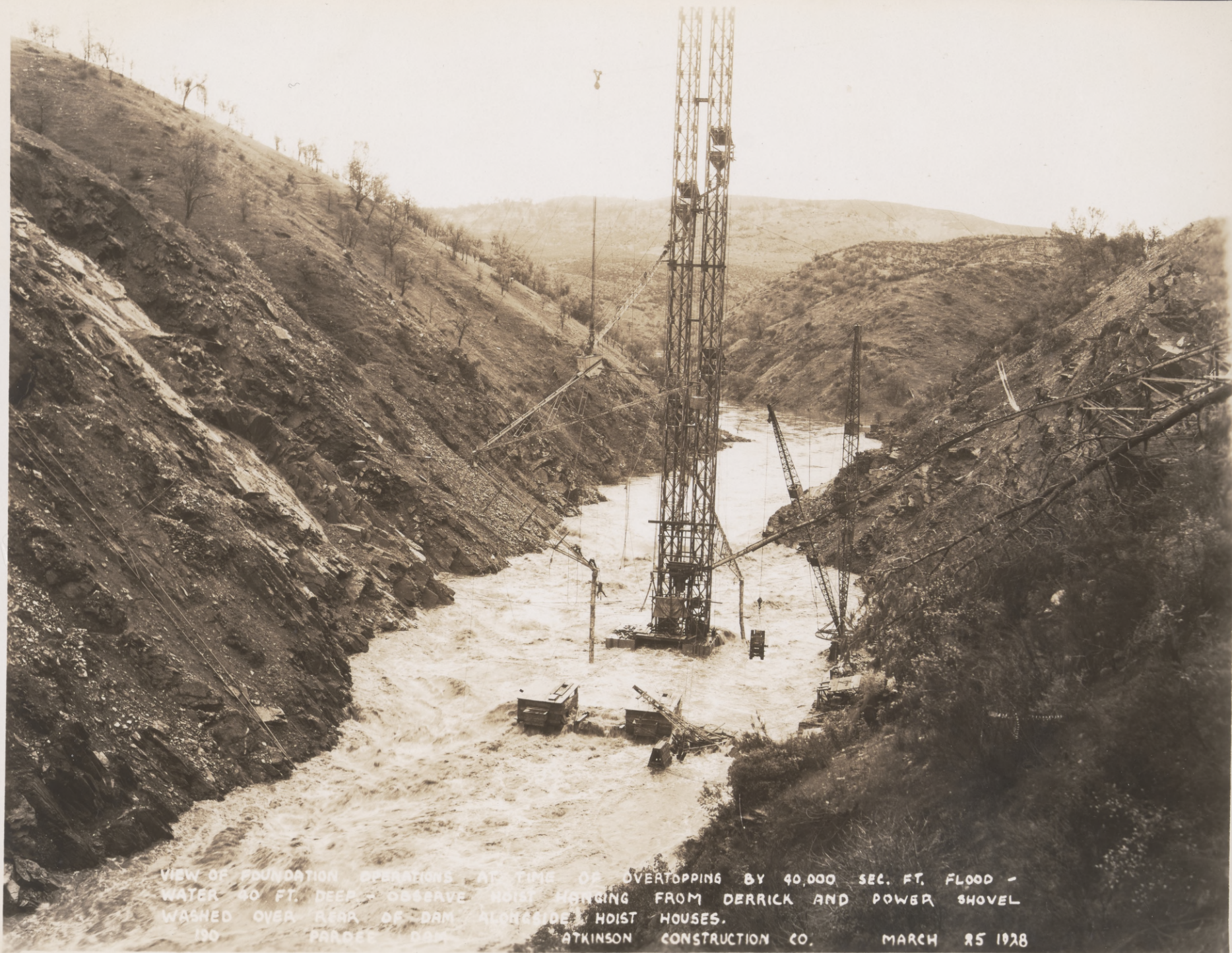
ATKINSON CONSTRUCTION CO.

MARCH 23 1928



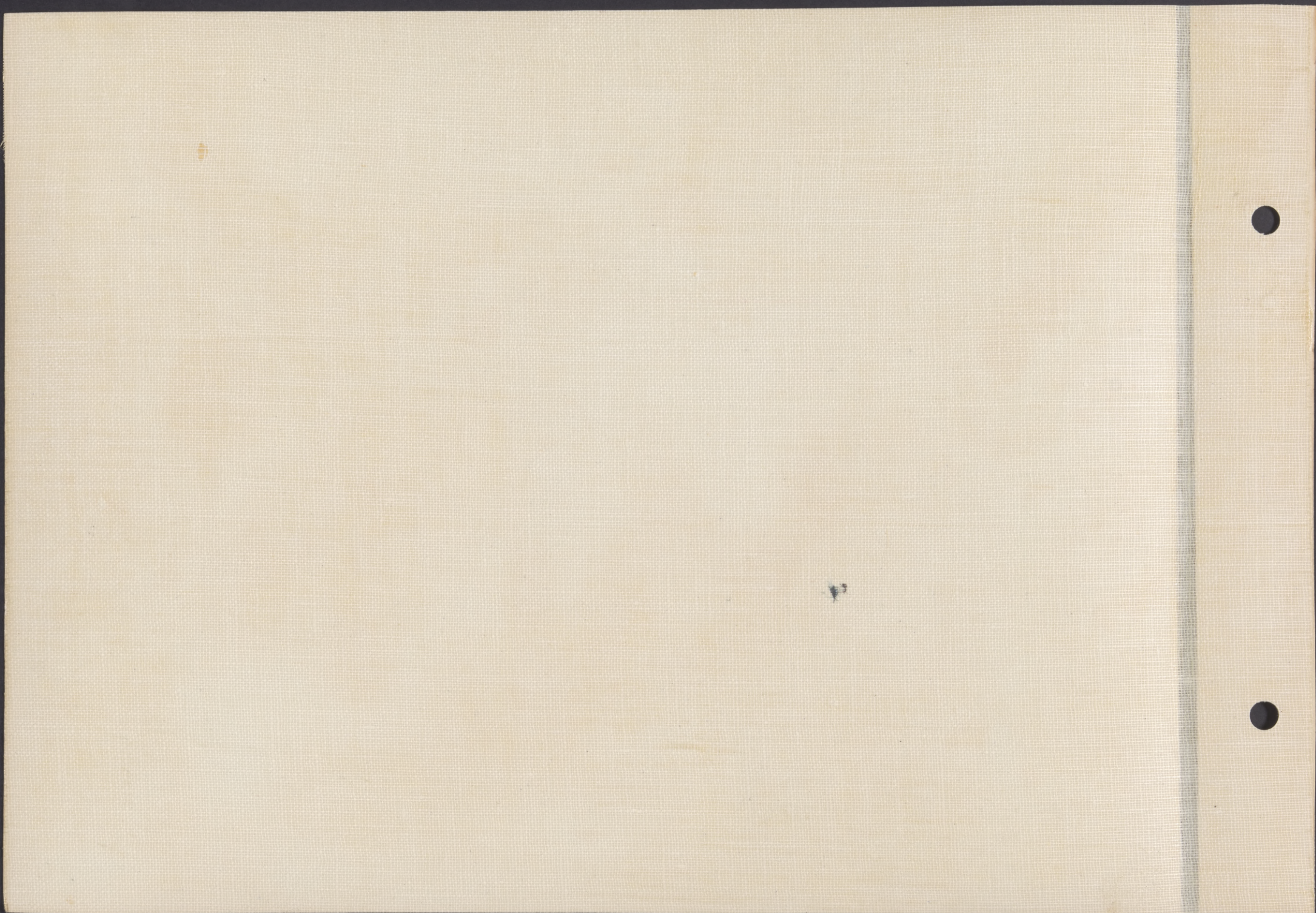




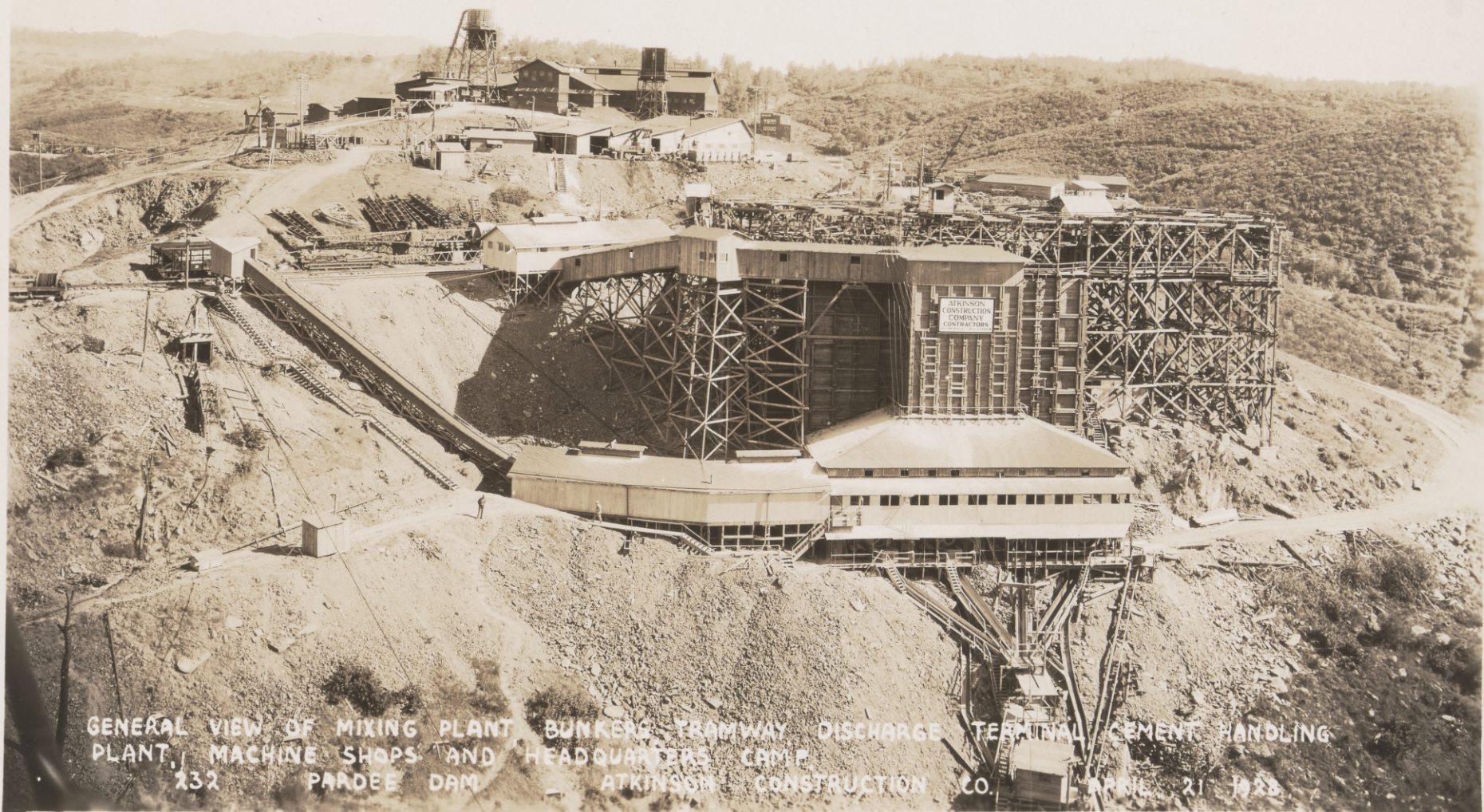


VIEW OF FOUNDATION OPERATIONS AT TIME OF OVERTOPPING BY 40,000 SEC. FT. FLOOD -  
WATER 60 FT. DEEP - OBSERVE HOIST HANGING FROM DERRICK AND POWER SHOVEL  
WASHED OVER REAR OF DAM ALONGSIDE HOIST HOUSES.  
190 PARADE DAM ATKINSON CONSTRUCTION CO. MARCH 25 1928



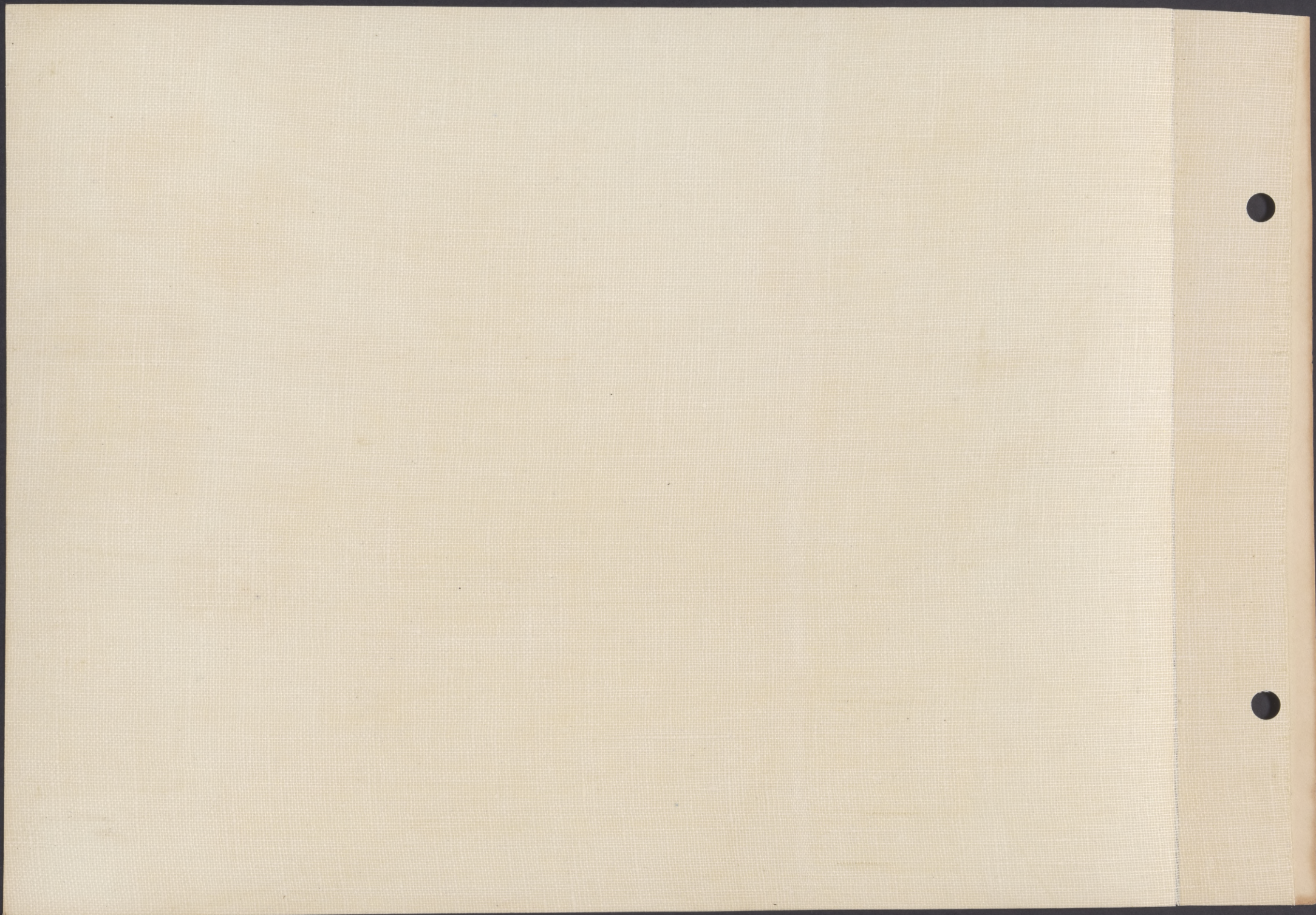






GENERAL VIEW OF MIXING PLANT BUNKERS TRAMWAY DISCHARGE TERMINAL CEMENT HANDLING  
PLANT, MACHINE SHOPS AND HEADQUARTERS CAMP  
132 PARDEE DAM — ATKINSON CONSTRUCTION CO. — APRIL 21 1928



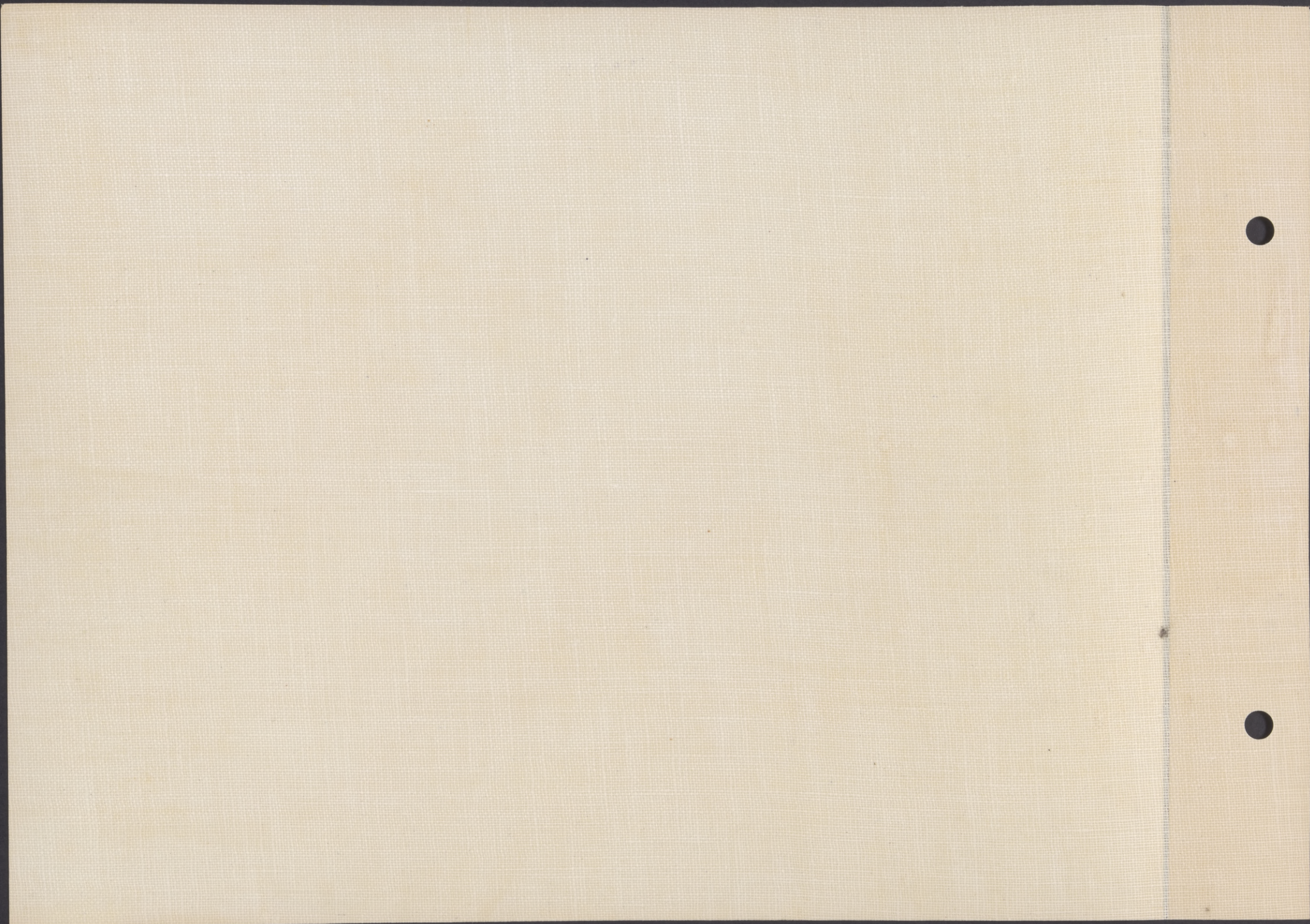






POURING FIRST CONCRETE IN RESTORED NORTH COPPER DAM AREA  
250 PARDEE DAM ATKINSON CONSTRUCTION CO APRIL 27 1928



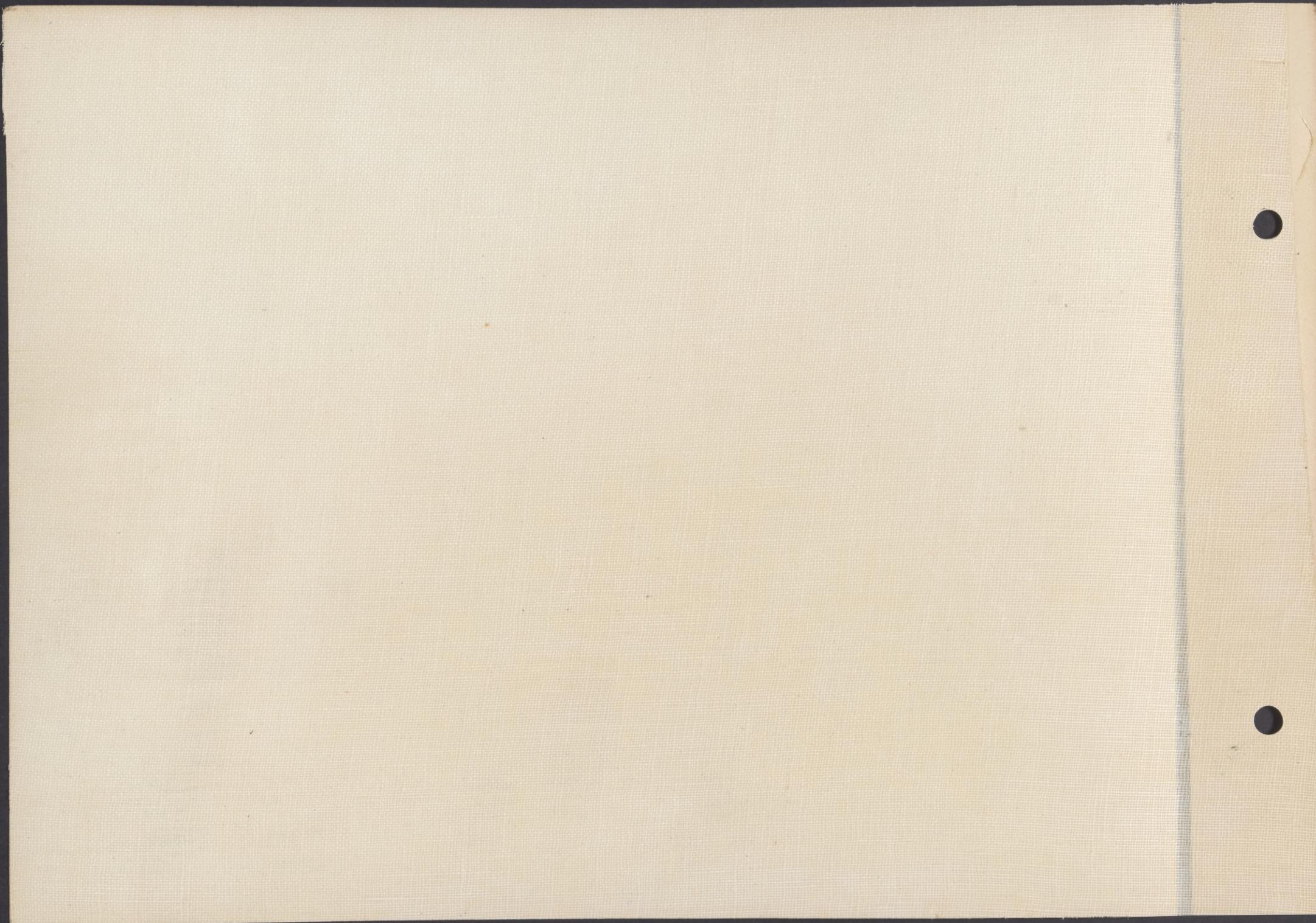






COMPLETING 254 CONCRETE FOUNDATION WORK IN NORTH RIVER CONTROL AREA  
PARDEE DAM ATKINSON CONSTRUCTION CO. APRIL 30 1928



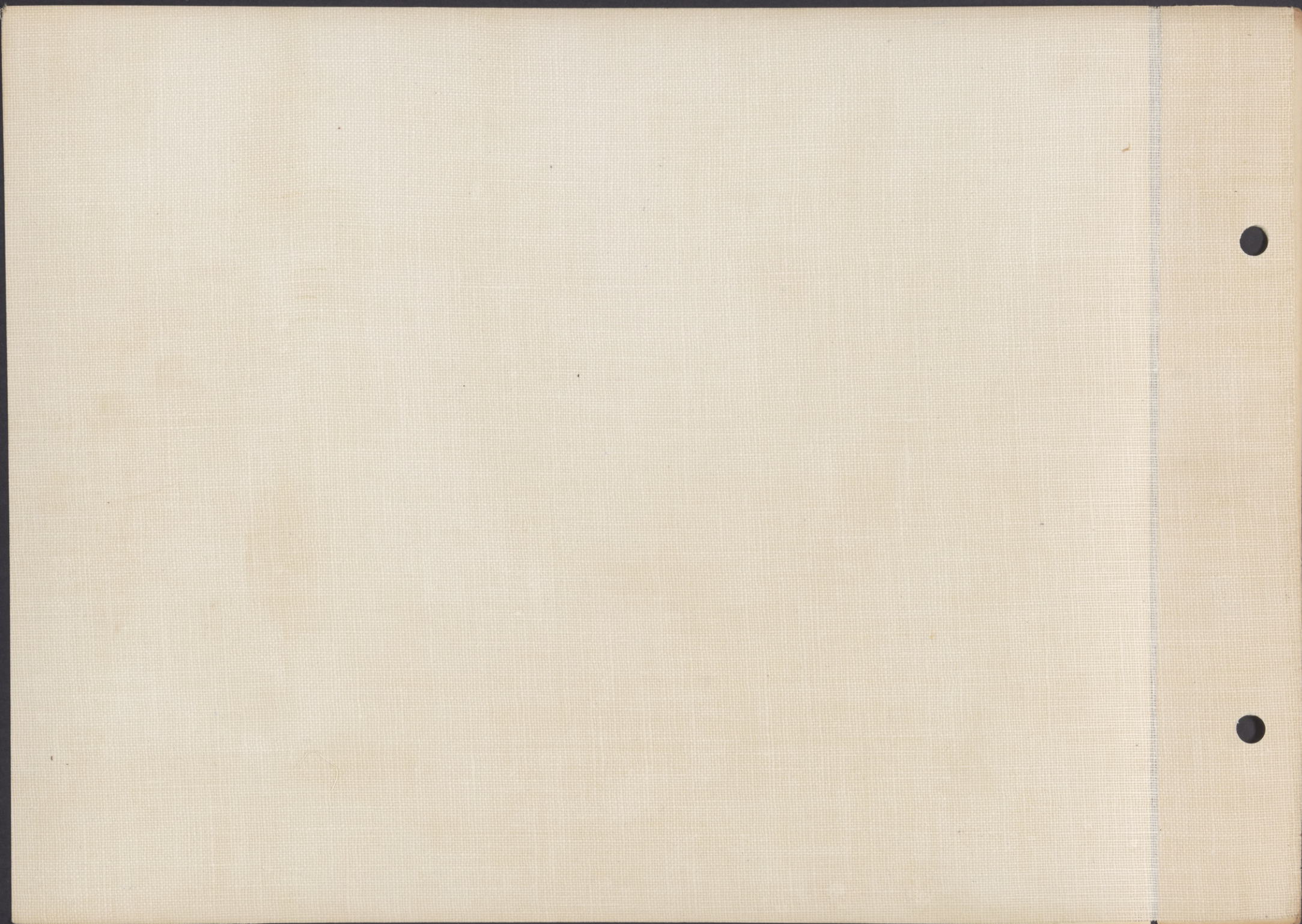






PROGRESS PICTURE AND GENERAL VIEW SHOWING CONSTRUCTION OPERATIONS  
269 PARDEE DAM ATKINSON CONSTRUCTION CO. MAY 22 1928



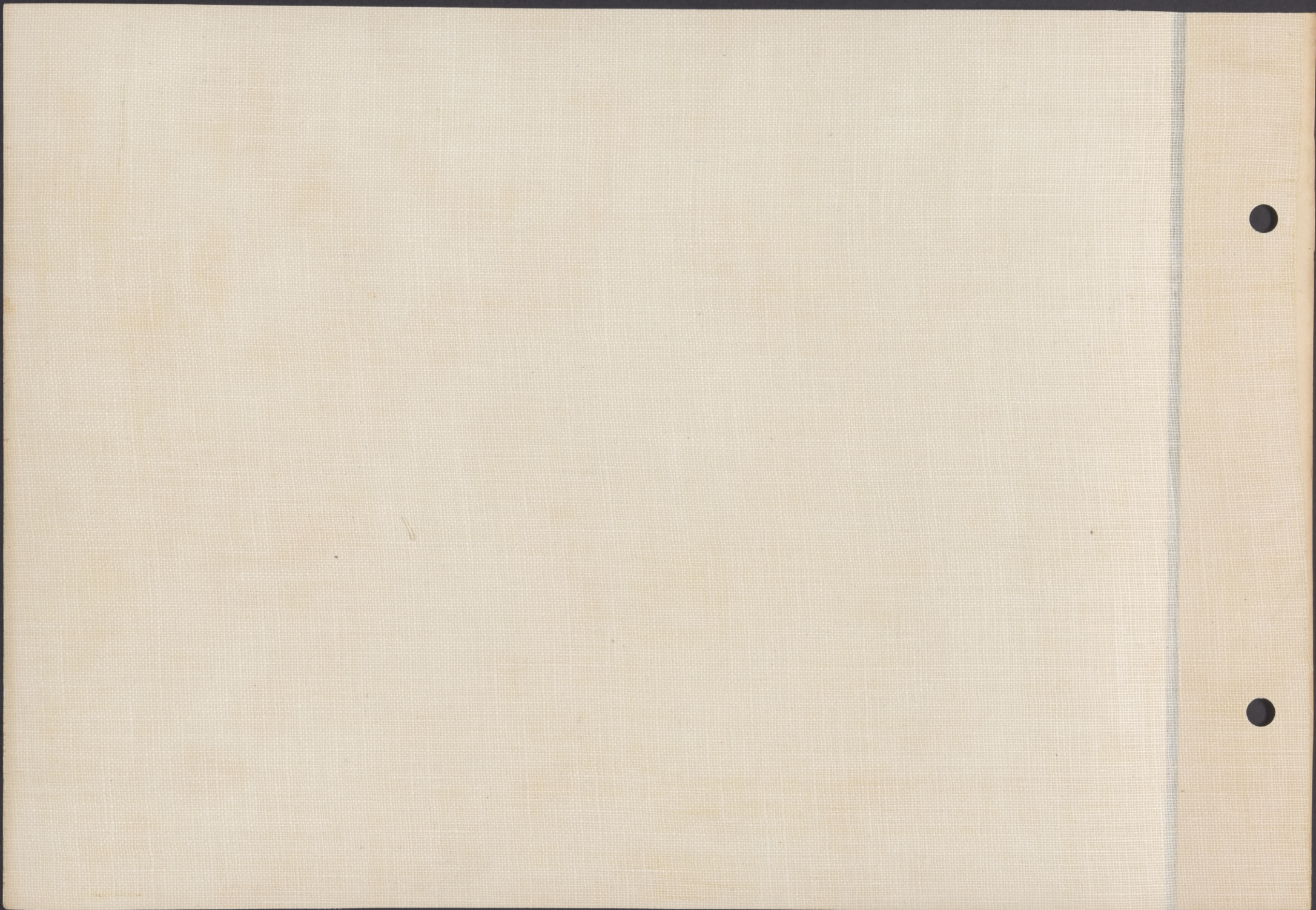




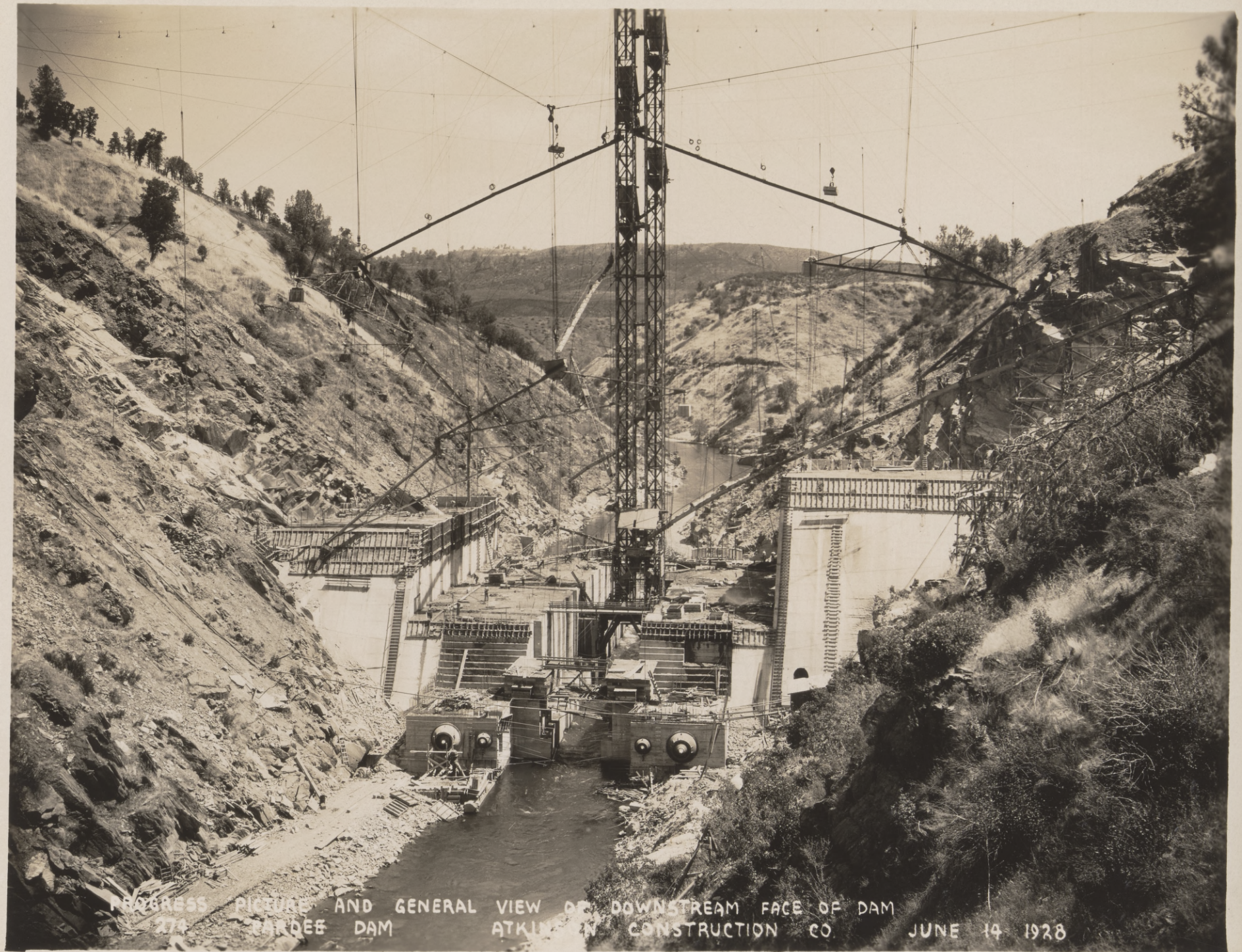


4-YARD "MONIGHAN" DRAGLINE LOADING 25-YARD WESTERN AIR DUMP CARS ATTACHED  
TO 25-TON PLYMOUTH LOCOMOTIVE AT GRAVEL PLANT  
267 PARDEE DAM ATKINSON CONSTRUCTION CO. MAY 22 1928









PROGRESS PICTURE AND GENERAL VIEW OF DOWNSTREAM FACE OF DAM  
274 GARDEES DAM ATKINSON CONSTRUCTION CO.

JUNE 14 1928



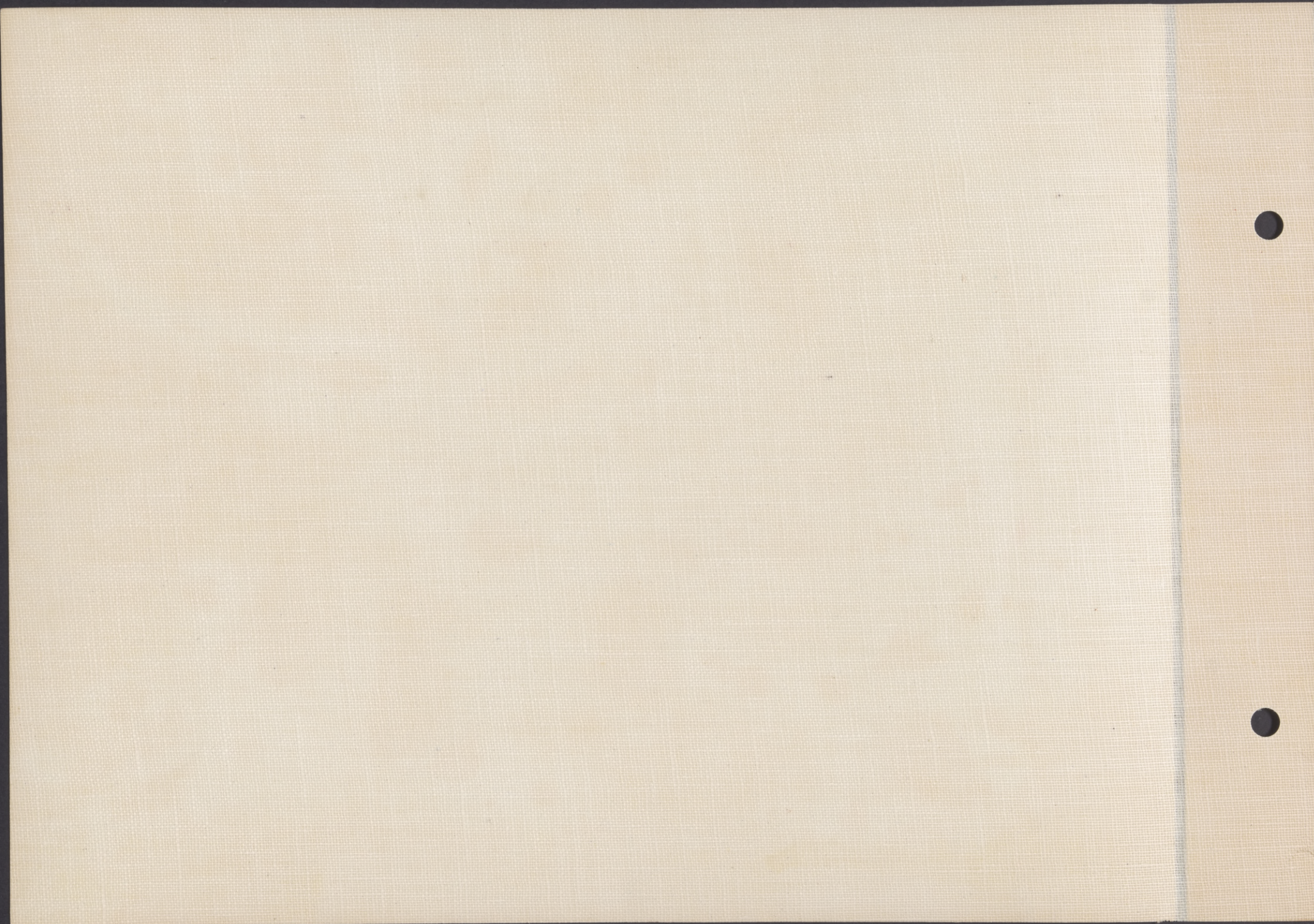




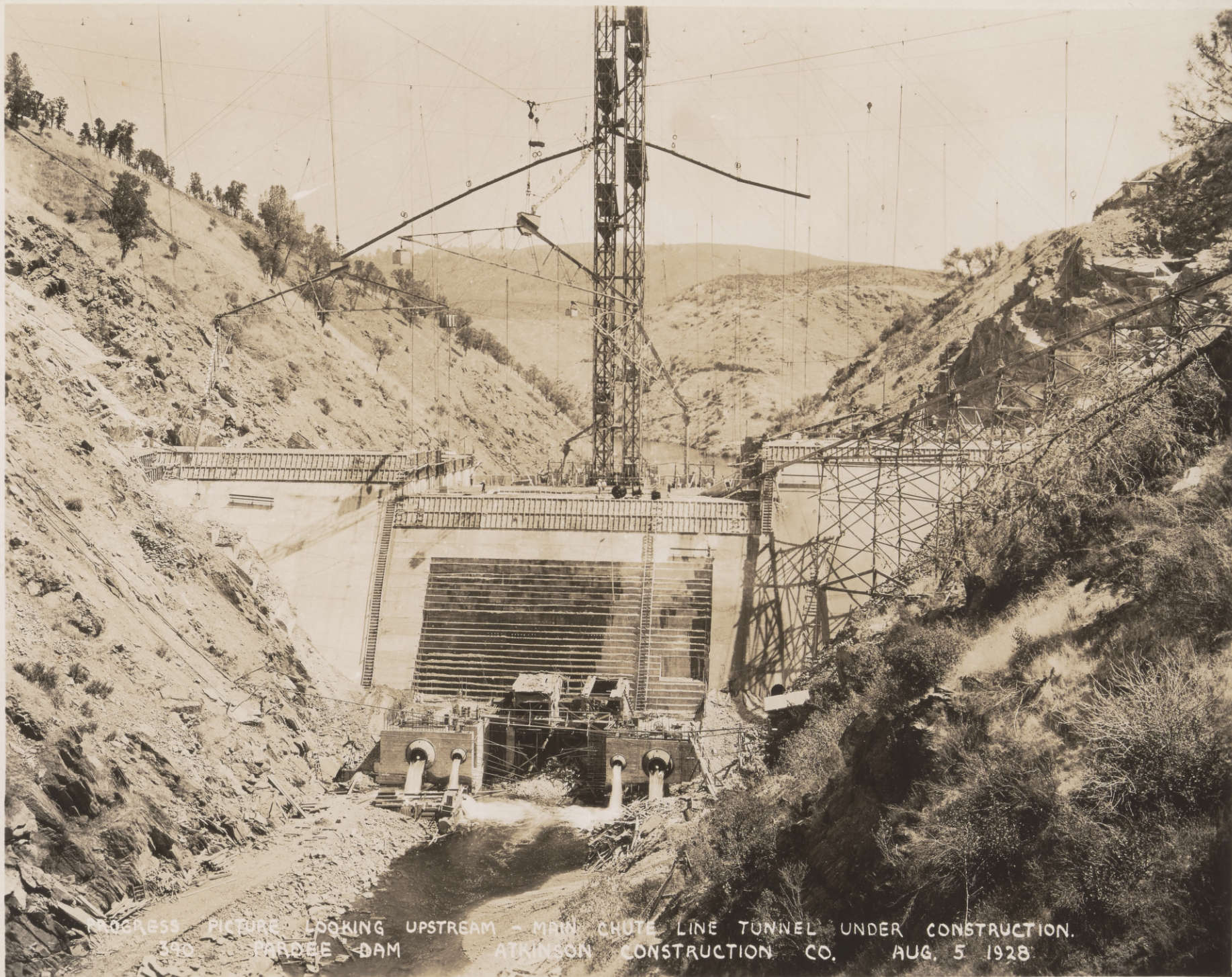


CREW PREPARING TO LOWER COLE IN SLUICeway IN FOREGROUND - CONCRETE MIXING  
PLANT AND TRAINWAY DISCHARGE TERMINAL IN UPPER LEFT CORNER  
284 - SANDY DAM - ATKINSON CONSTRUCTION CO. JUNE 15 1928



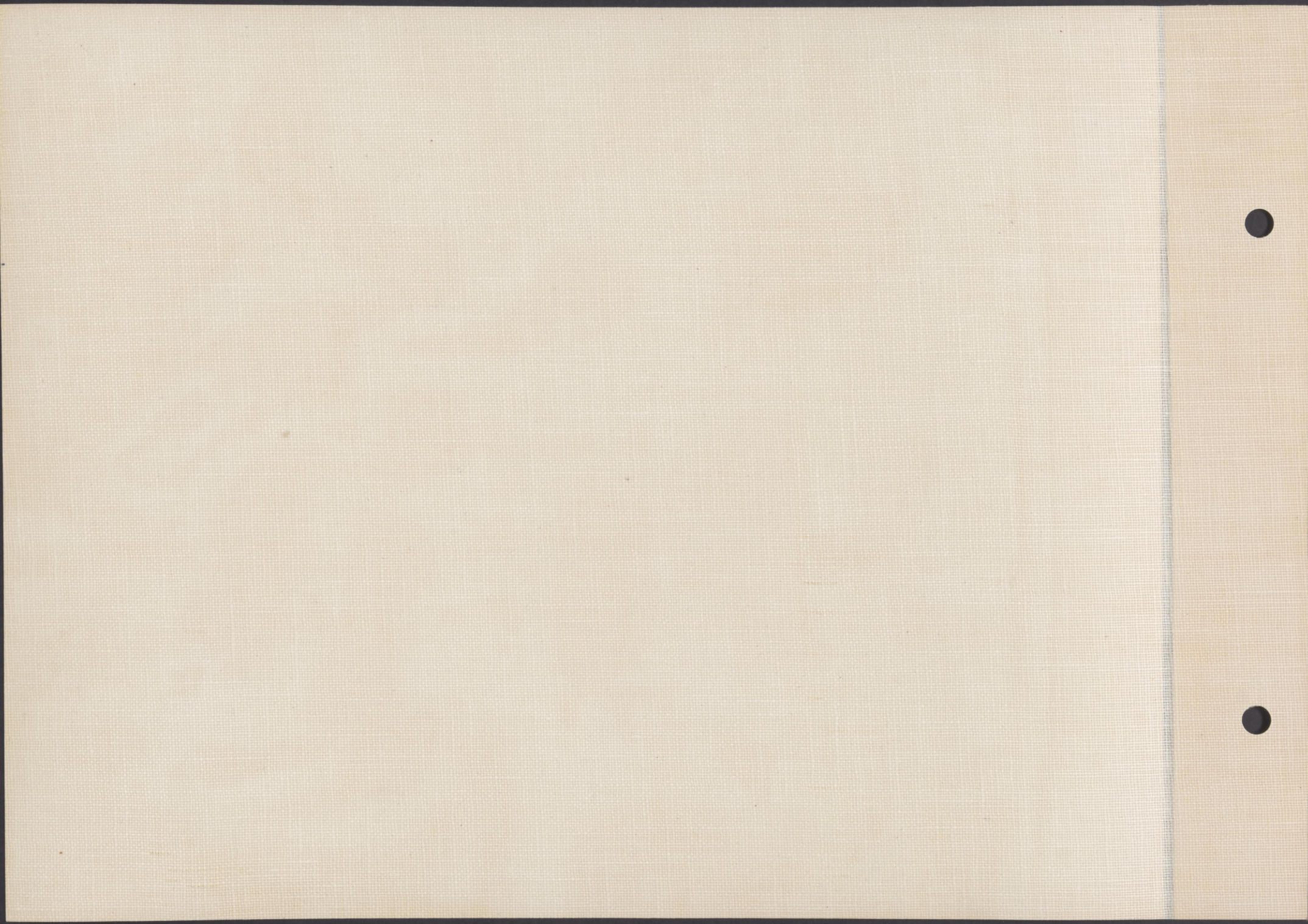






PROGRESS PICTURE LOOKING UPSTREAM - MAIN CHUTE LINE TUNNEL UNDER CONSTRUCTION.  
340 PARDEE DAM ATKINSON CONSTRUCTION CO. AUG. 5 1928



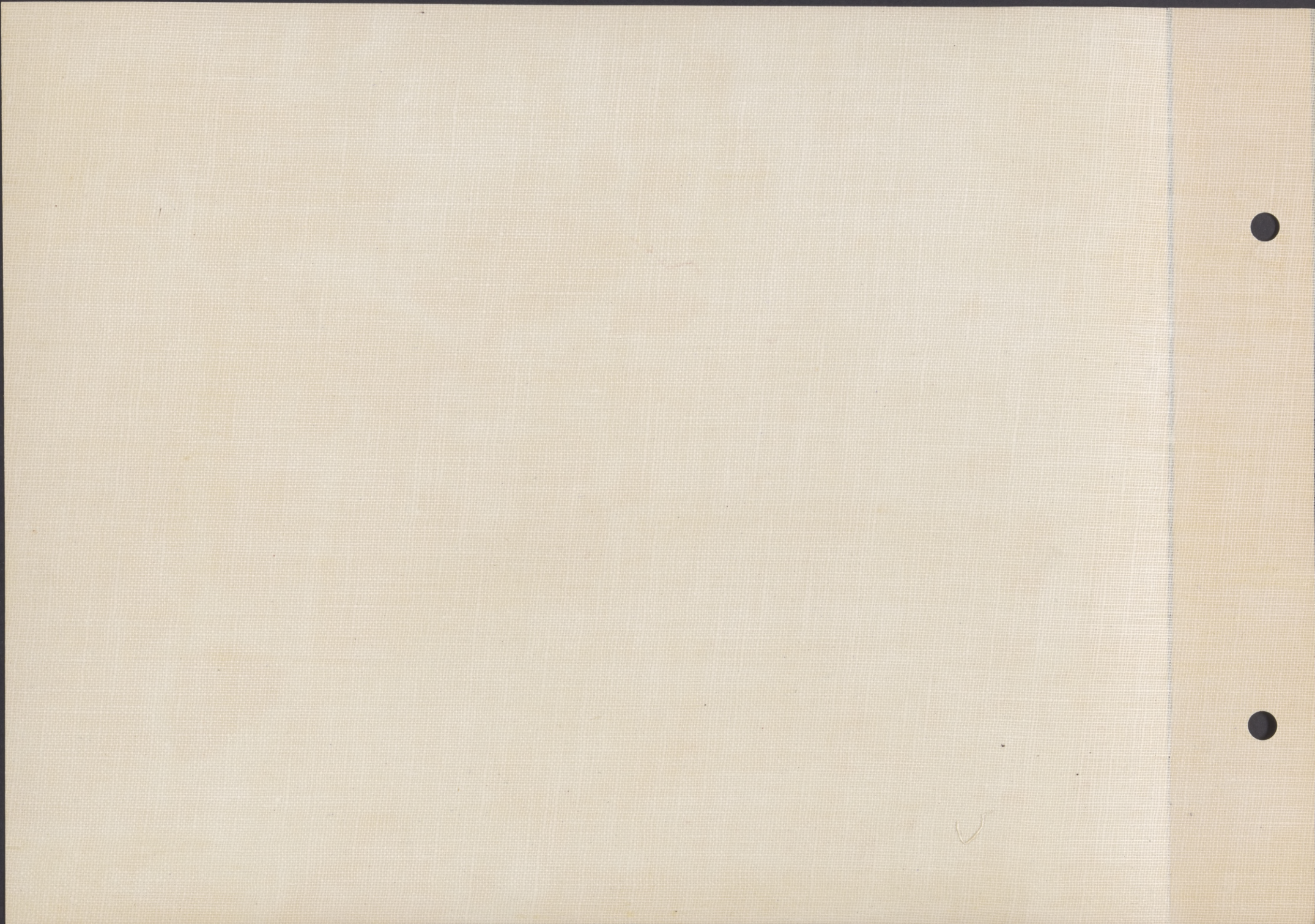






ANNIVERSARY PICTURE SHOWING PROGRESS OF DAM CONSTRUCTION ONE YEAR  
AFTER COMMENCEMENT OF OPERATIONS.  
358 PARDEE DAM ATKINSON CONSTRUCTION CO AUG 31 1928



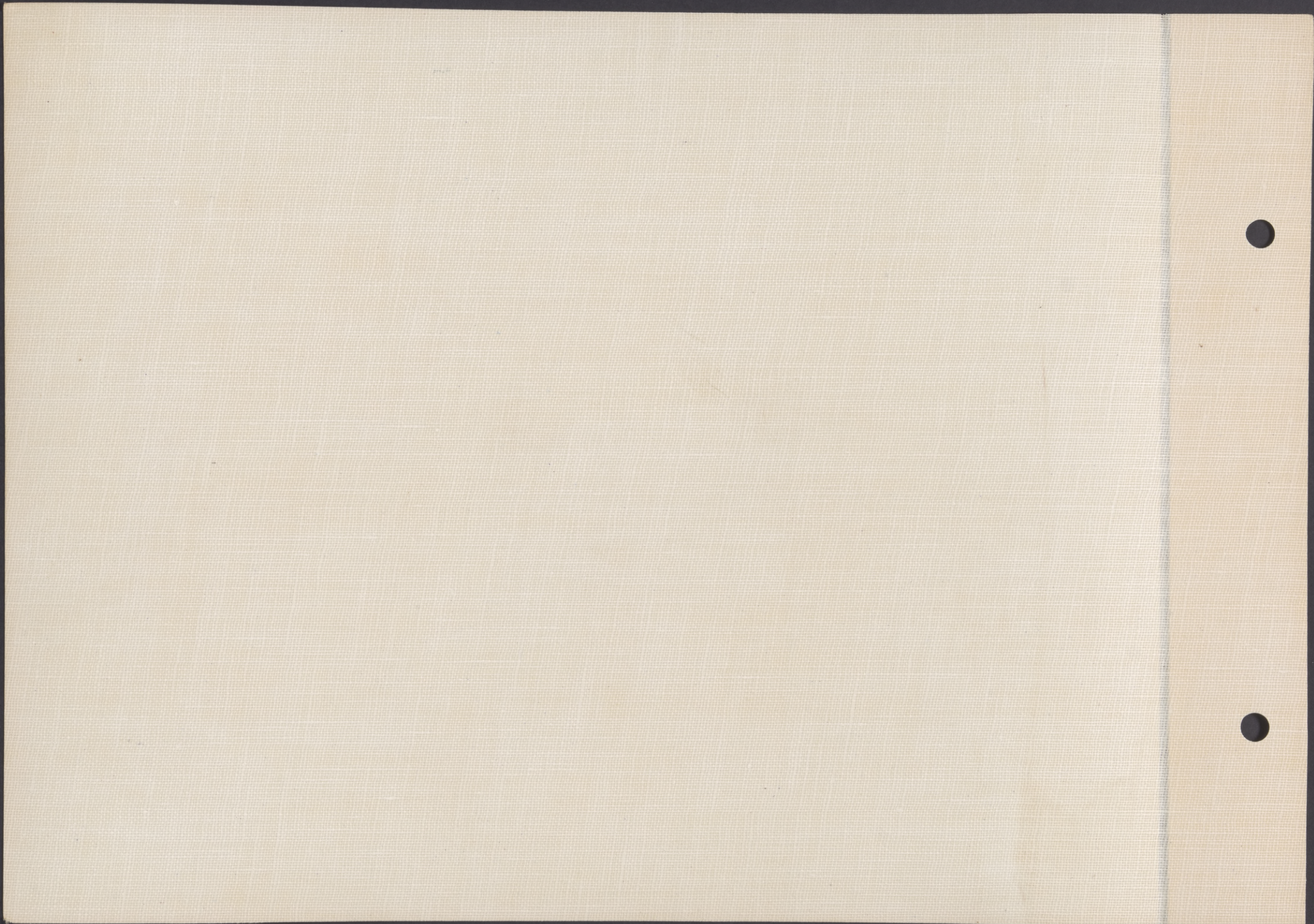






PROGRESS PICTURE LOOKING DOWNSTREAM FROM SALT GULCH SHOWING TOWERS AFTER  
ERECTION TO FULL HEIGHT AND BEFORE HANGING UPPER CHUTE LINES.  
373 PARADISE DAM ATKINSON CONSTRUCTION CO. NOV. 1 1928



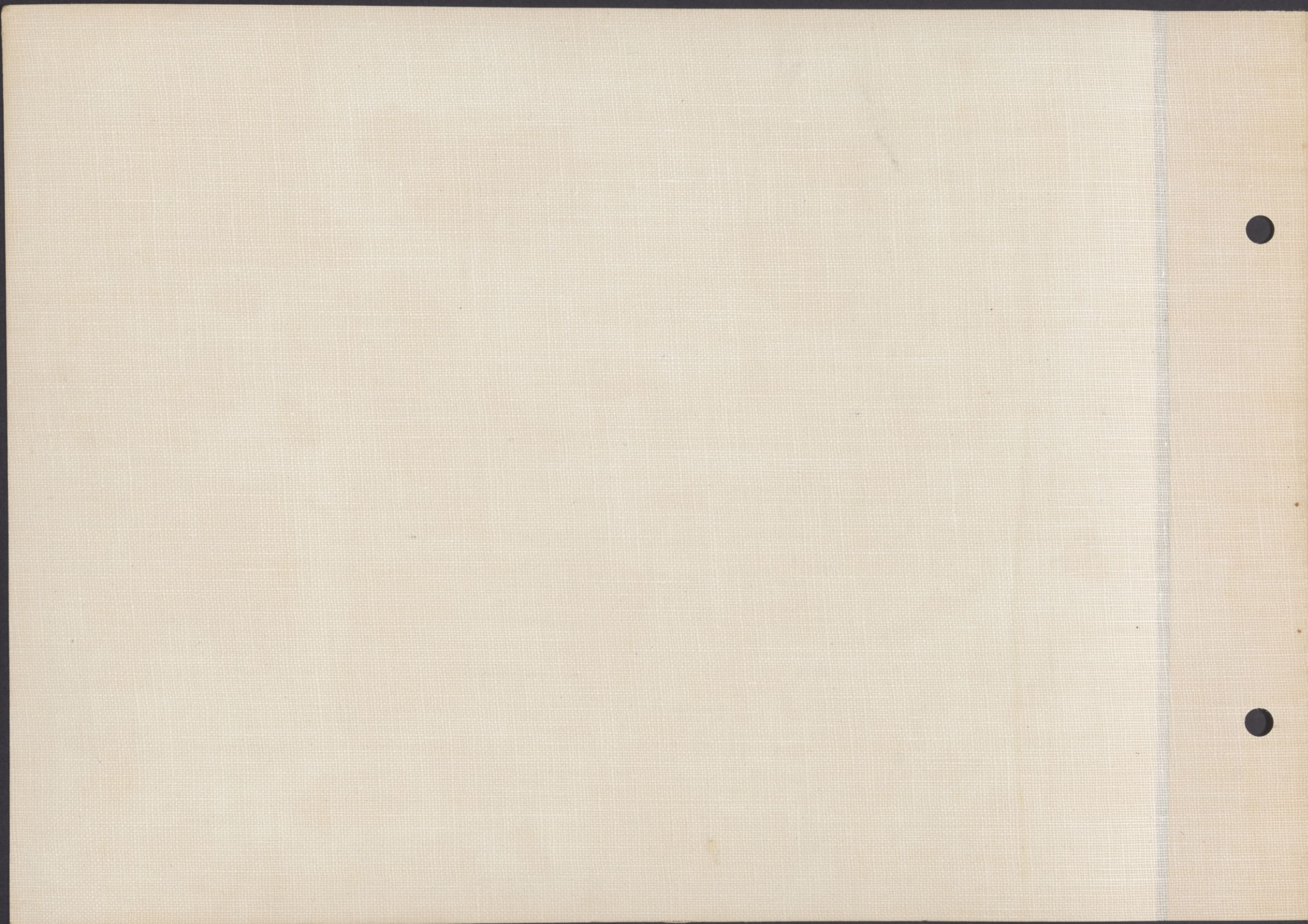




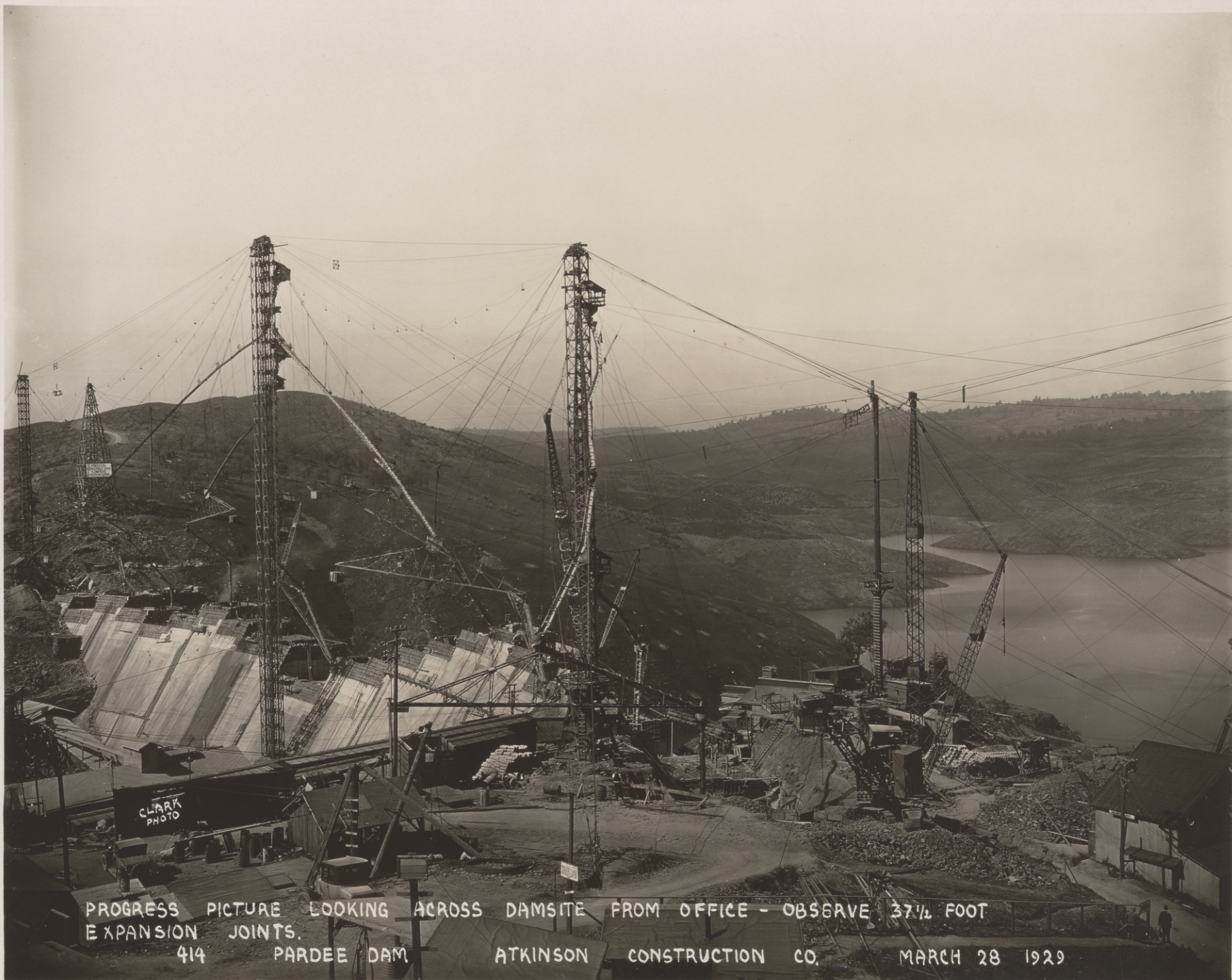


PROGRESS PICTURE LOOKING DOWNSTREAM DIAGONALLY ACROSS DAM - CONCRETE PLACING  
OPERATIONS IN PROGRESS AT RIGHT.  
407 PARDEE DAM ATKINSON CONSTRUCTION CO. DEC. 15 1928







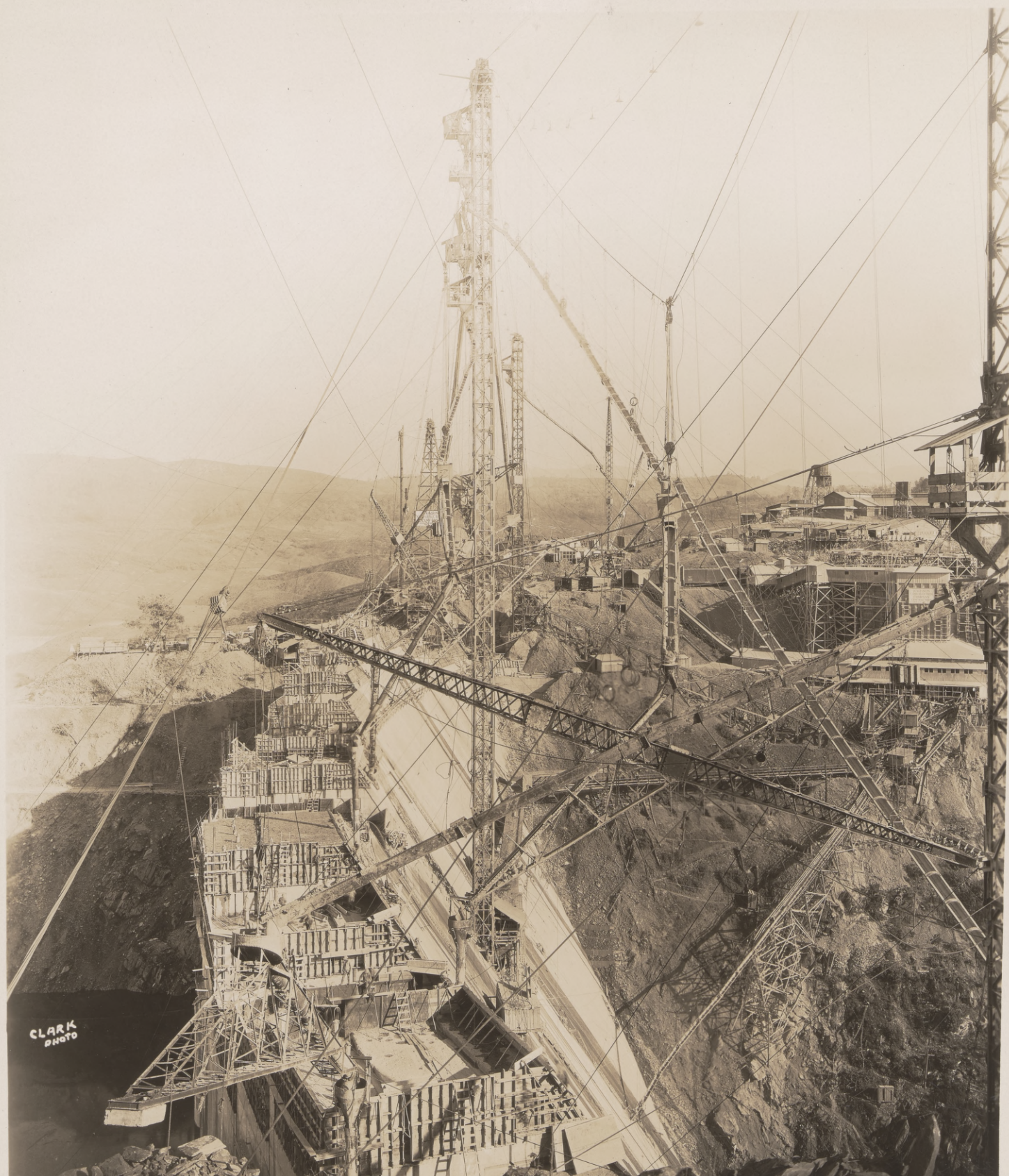


PROGRESS PICTURE LOOKING ACROSS DAMSITE FROM OFFICE - OBSERVE 37 1/2 FOOT  
EXPANSION JOINTS.  
414 PARDEE DAM ATKINSON CONSTRUCTION CO. MARCH 28 1929





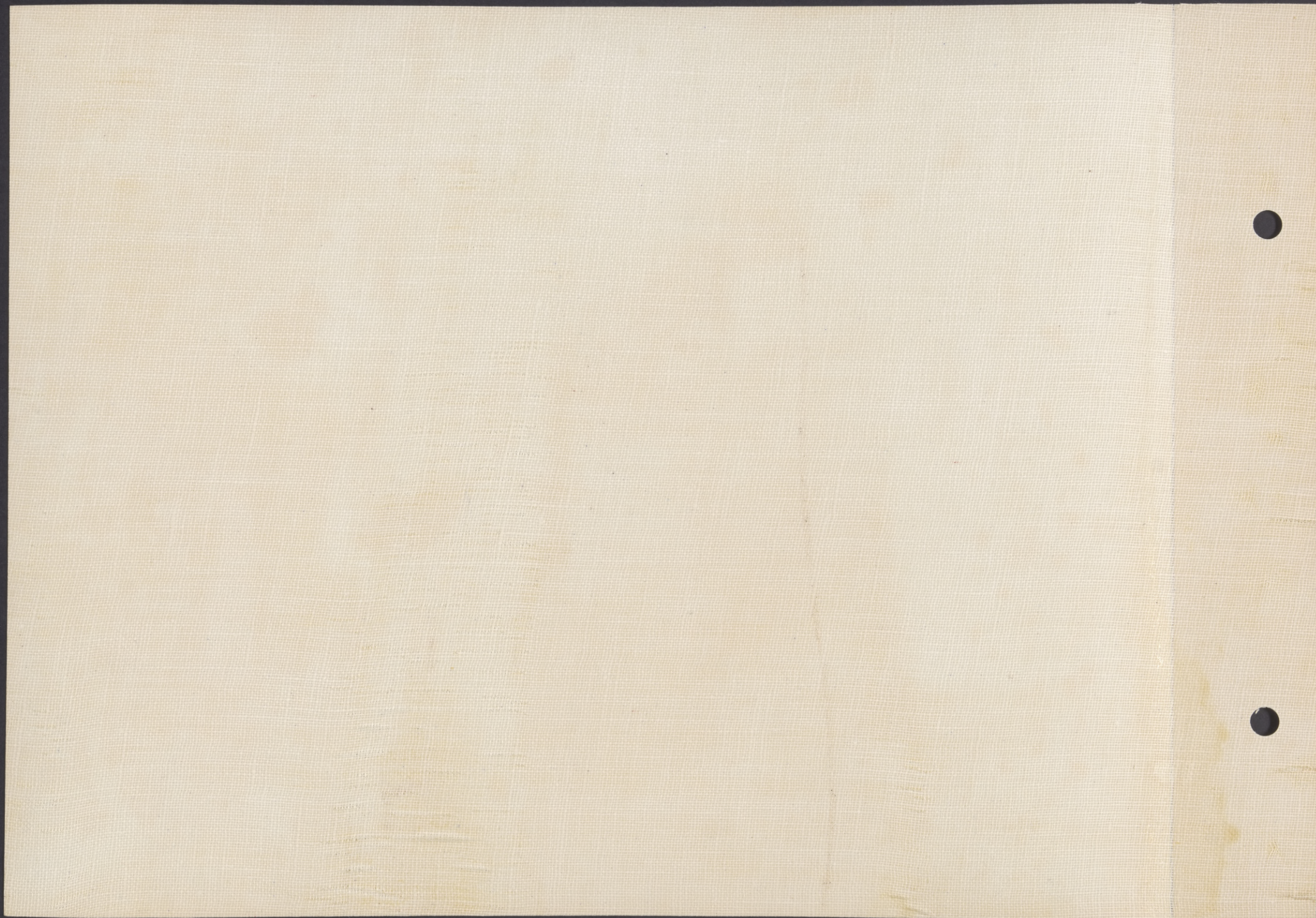




CLARK  
PHOTO

GENERAL VIEW ACROSS DAM FROM NORTH CONCRETE HOISTING TOWER  
SHOWING RIGGING WITH EIGHT POINTS OF CONCRETE PLACEMENT  
418 PARDEE DAM ATKINSON CONST. CO. MARCH 28 1929



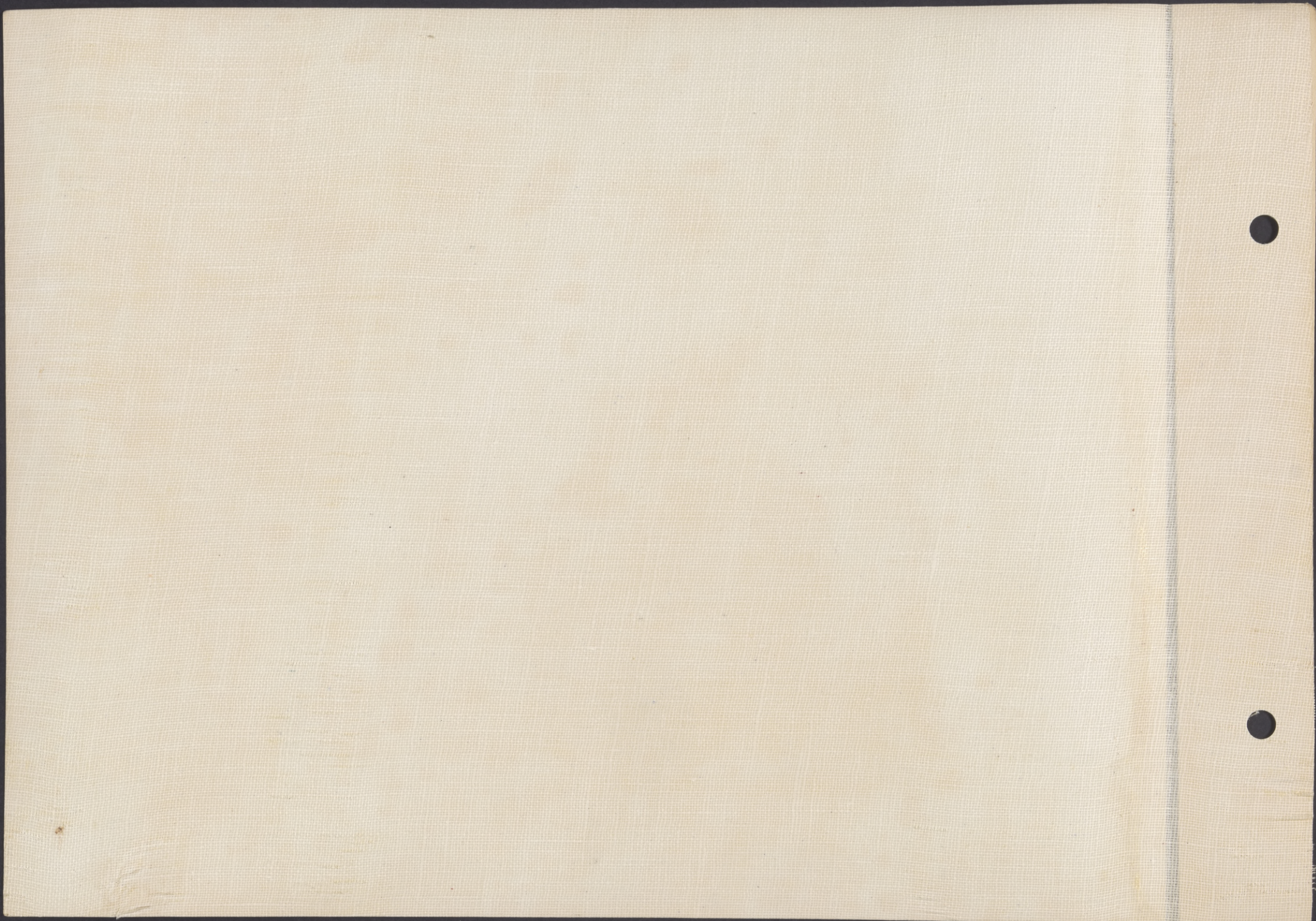




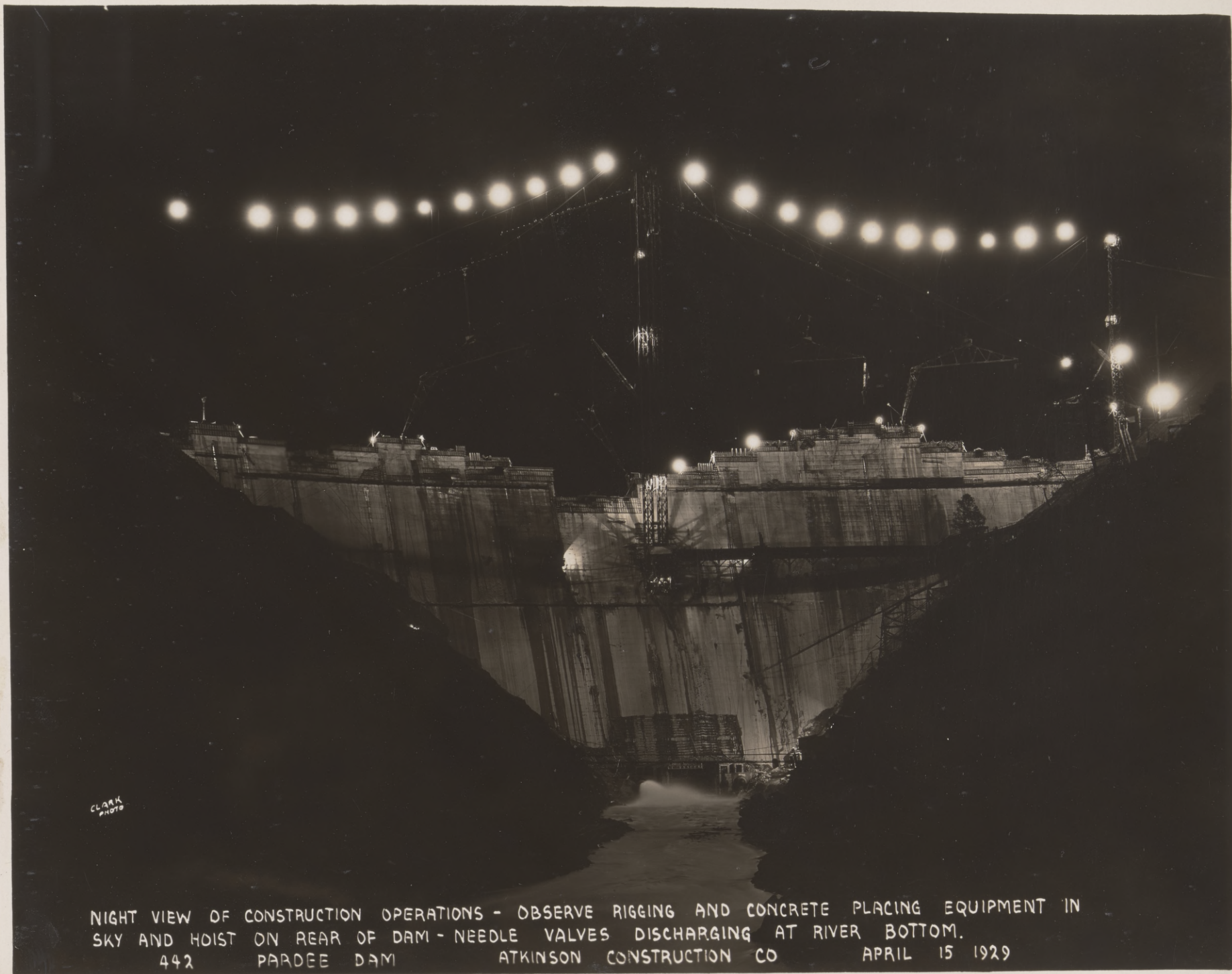


GENERAL VIEW OF CONCRETE PLACING PLANT SHOWING THREE BOOM PLANTS SUSPENDED FROM  
TOWERS AND FOUR DOUBLE 50 FT. COUNTERWEIGHTS SUSPENDED FROM HIGH LINES - BELT  
CONVEYOR ON REAR OF DAM DELIVERING CONCRETE TO CENTER TOWERS.  
432 PARDEE DAM ATKINSON CONSTRUCTION CO. MARCH 31 1929





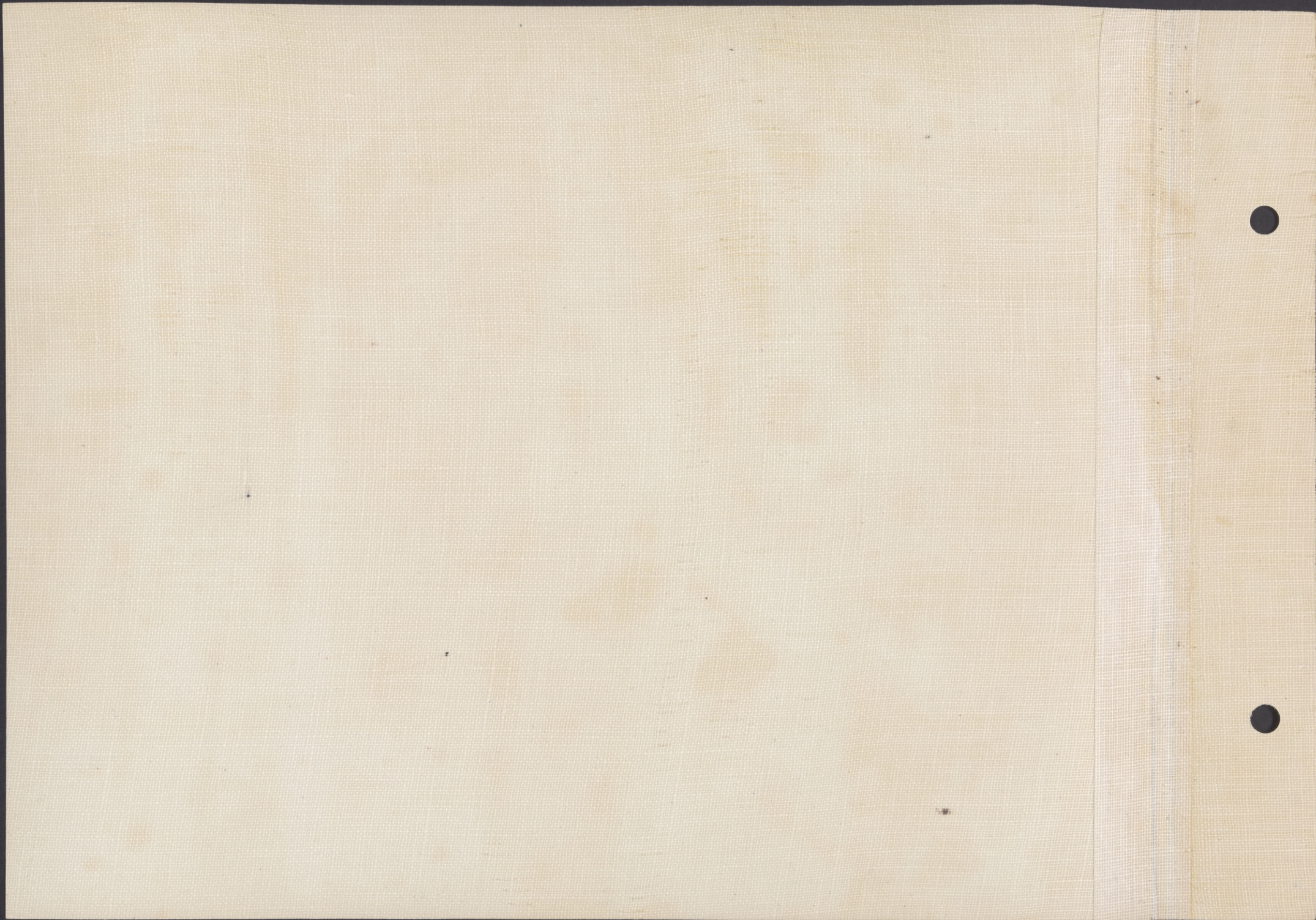




CLARK  
PHOTO

NIGHT VIEW OF CONSTRUCTION OPERATIONS - OBSERVE RIGGING AND CONCRETE PLACING EQUIPMENT IN  
SKY AND HOIST ON REAR OF DAM - NEEDLE VALVES DISCHARGING AT RIVER BOTTOM.  
442 PARDEE DAM ATKINSON CONSTRUCTION CO APRIL 15 1929









CLARK  
PHOTO

VIEW OF UPSTREAM FACE OF DAM WITH WATER STORAGE AND LAKE RAISED OVER 200 FT. - FULL  
CONCRETE PLACEMENT RIGGING AND OPERATION, INCLUDING THREE TOWER BOOM PLANTS AND ONE  
DERRICK BOOM PLANT AND FOUR 50 FOOT COUNTERWEIGHTS.

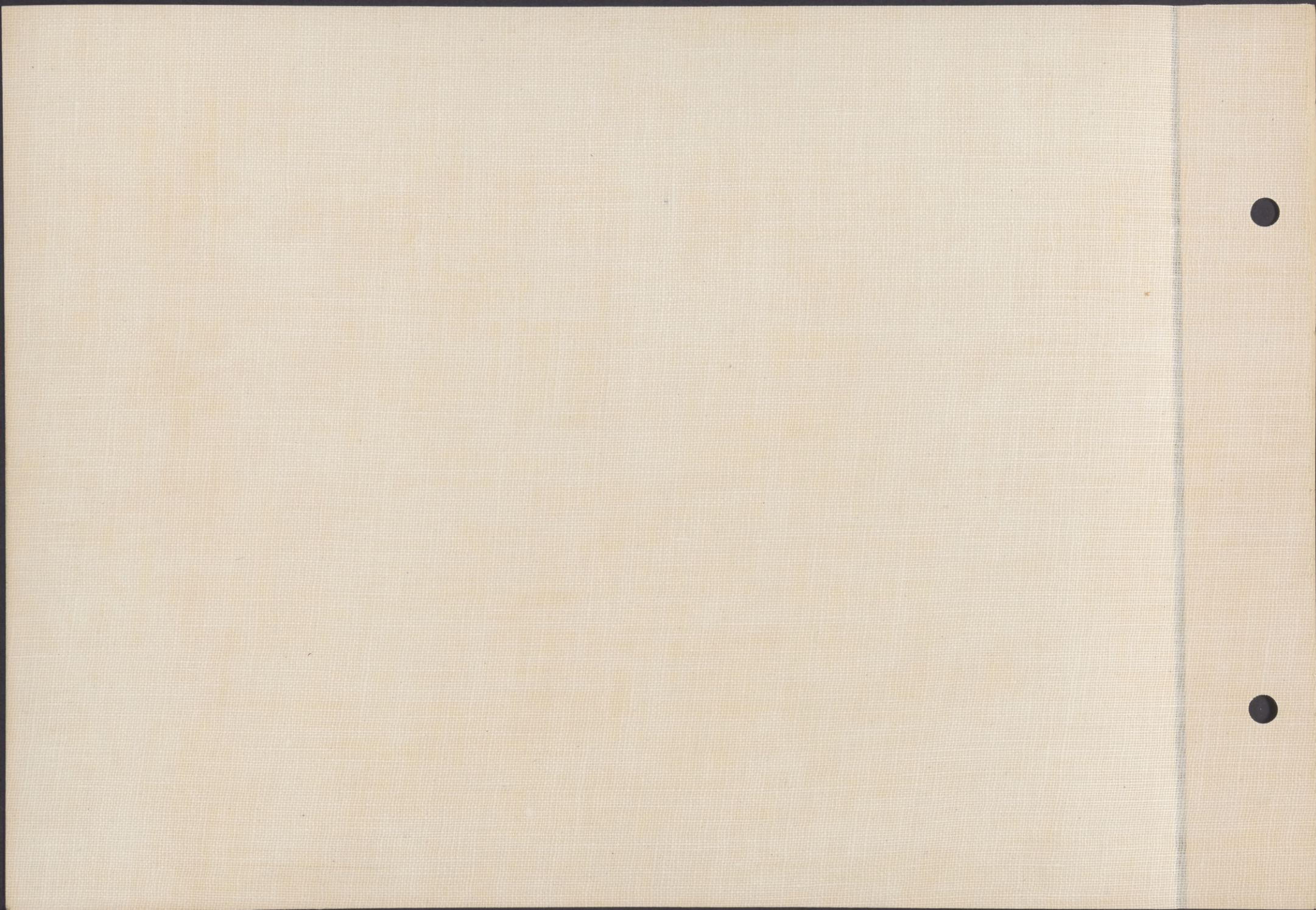
451

PARDEE DAM

ATKINSON CONSTRUCTION CO.

APRIL 26 1929





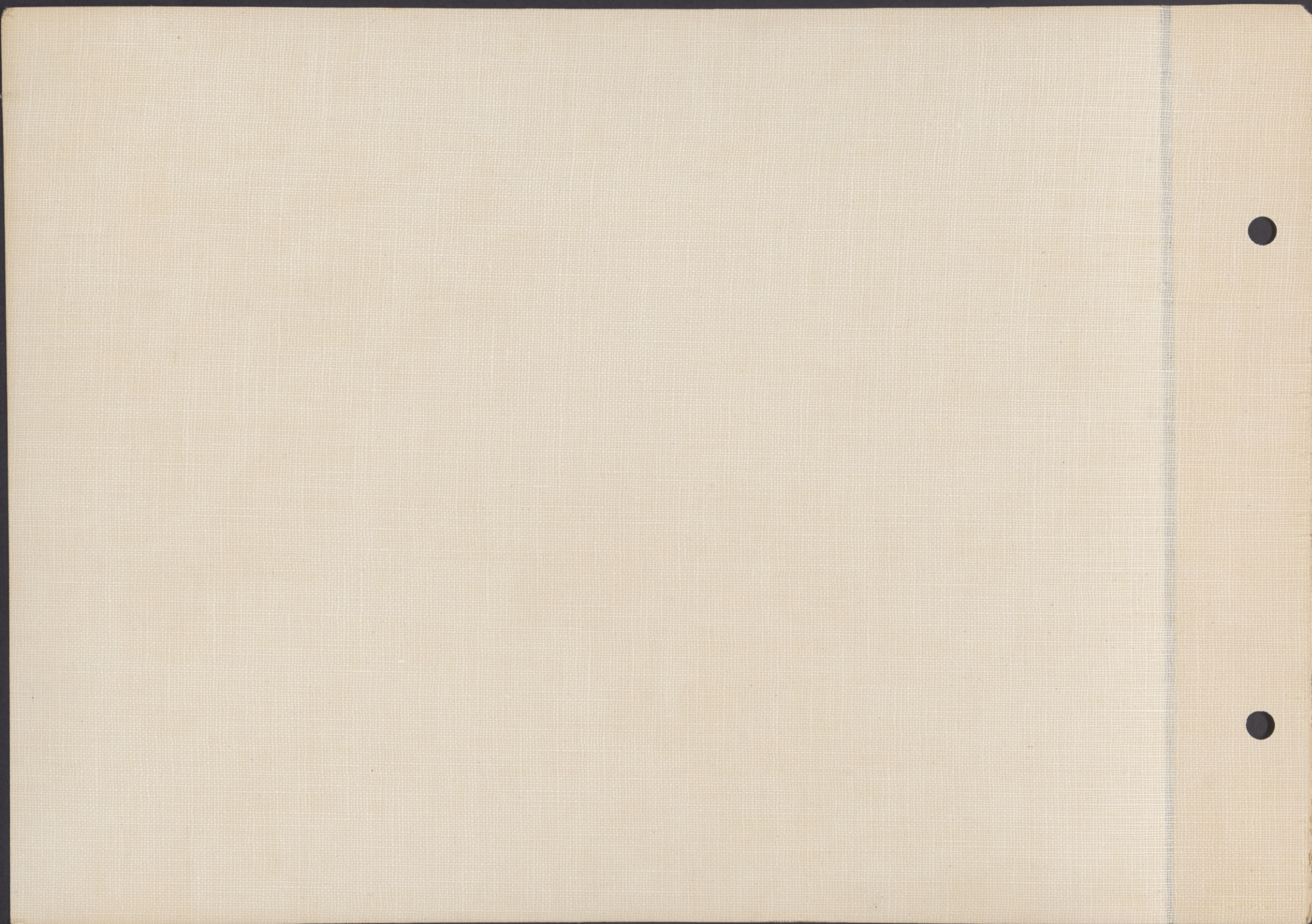




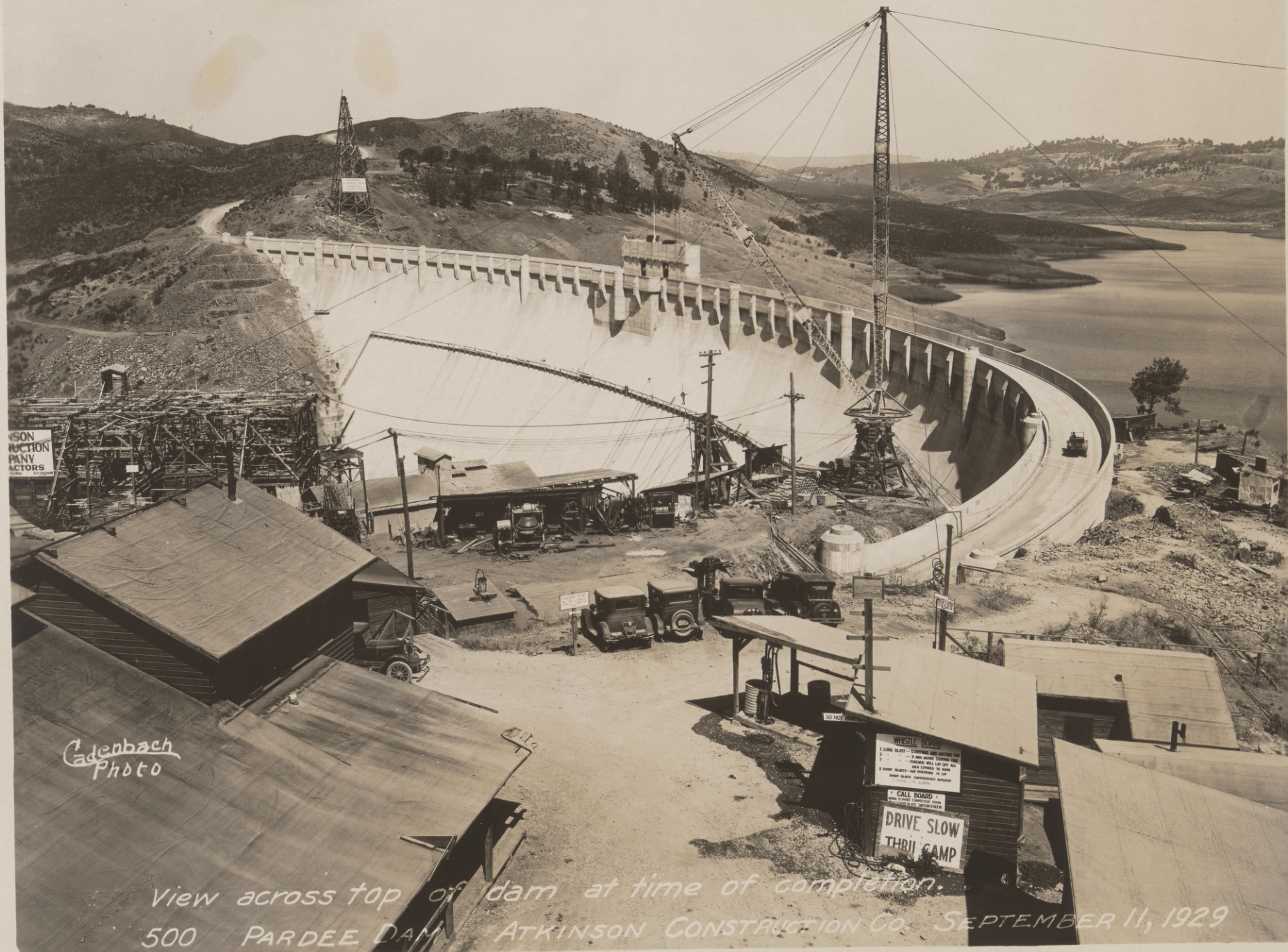
GENERAL VIEW ACROSS DAMSITE WATER TOWER.  
458 PARDEE DAM ATKINSON CONSTRUCTION CO.

MAY 11 1928





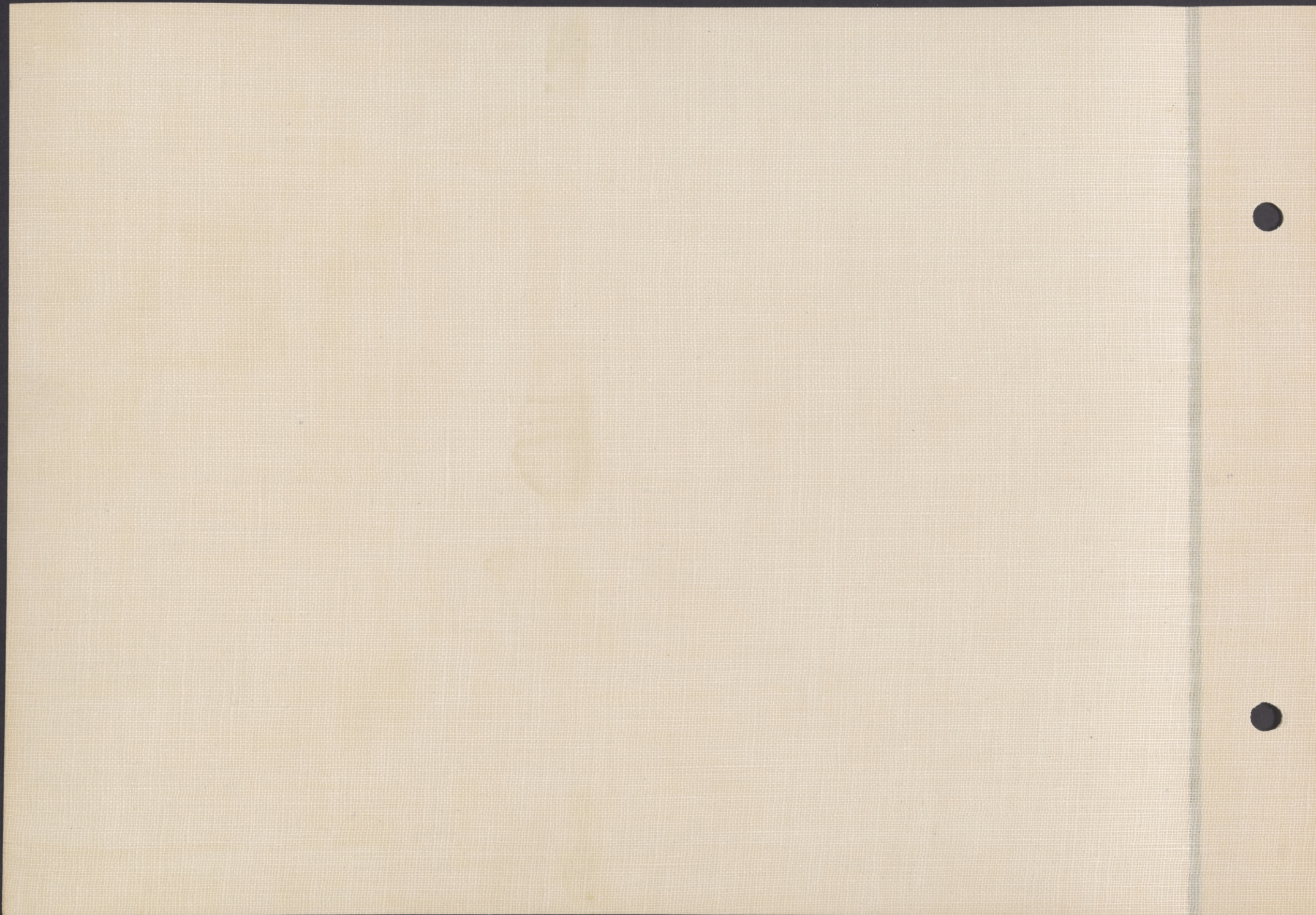




Cadenbach  
Photo

View across top of dam at time of completion.  
500 PARDEE DAM ATKINSON CONSTRUCTION CO. SEPTEMBER 11, 1929







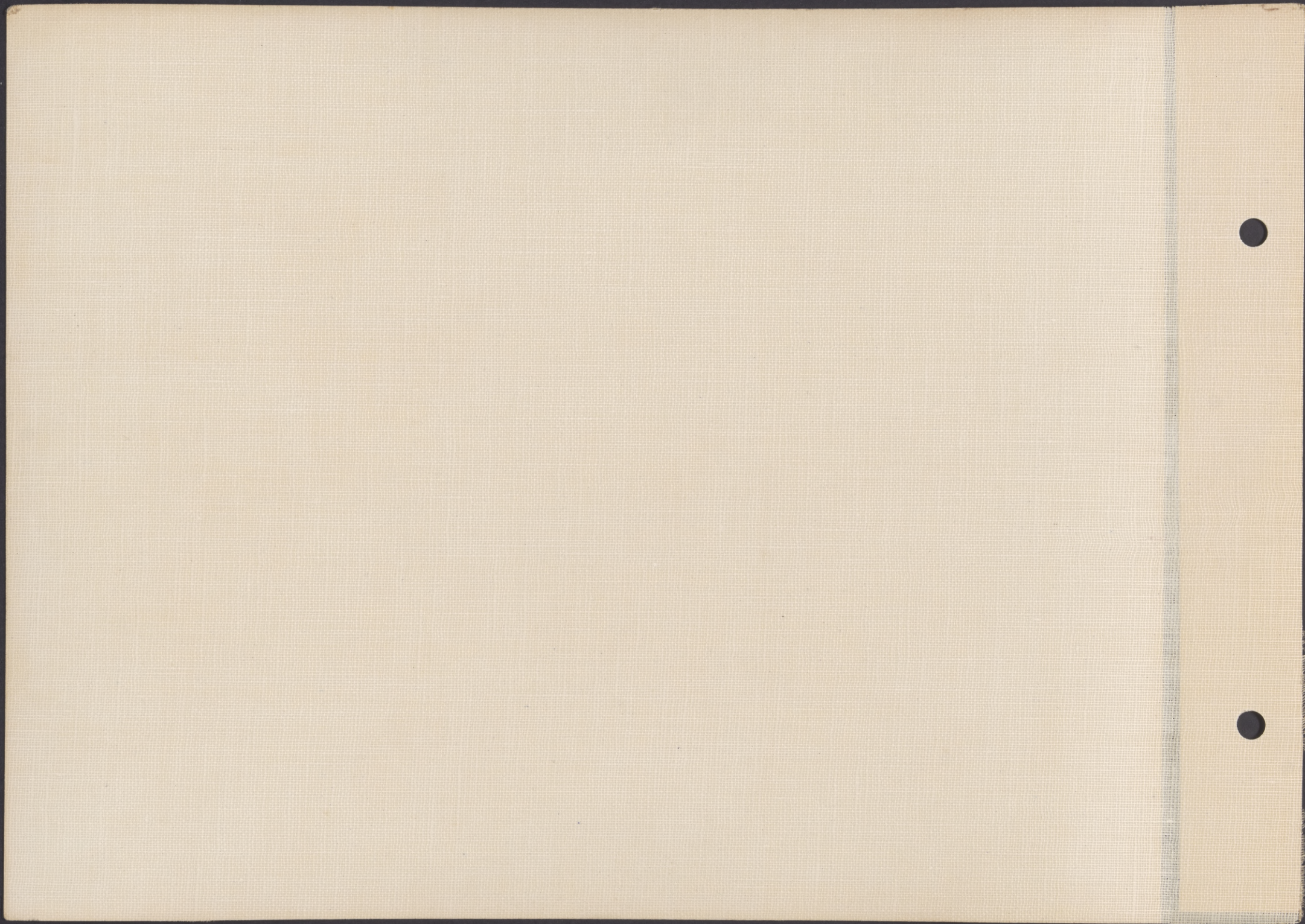


Gadenbach  
photo

View of downstream  
side of dam showing  
river channel excavation  
in progress.

ATRINSON CONSTRUCTION CO.  
PARDEE DAM SEPT. 13, 1929



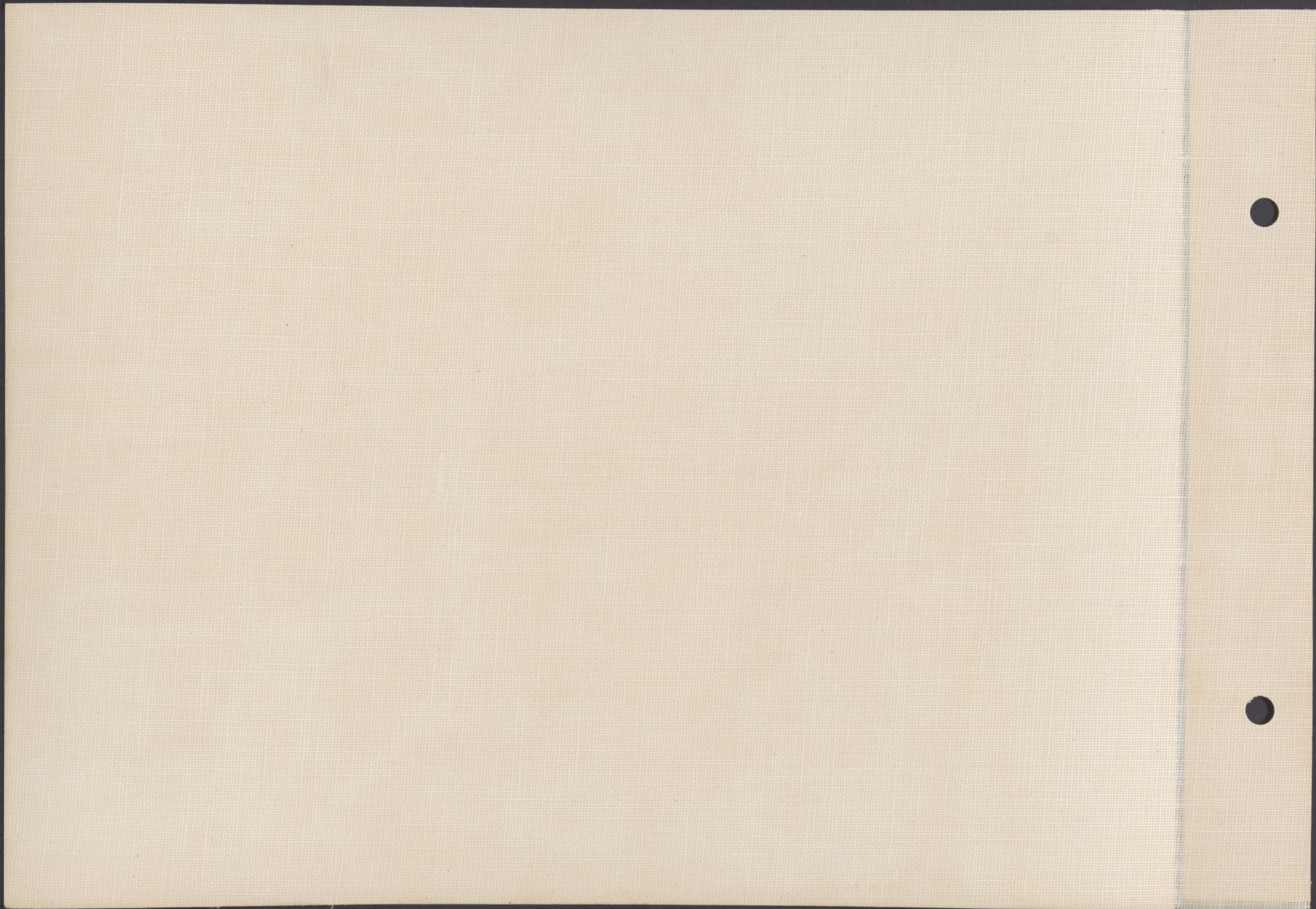






Upstream side of dam. Observe dumps at left.  
523 PARDEE DAM. ATKINSON CONSTRUCTION CO. SEPTEMBER 28, 1929







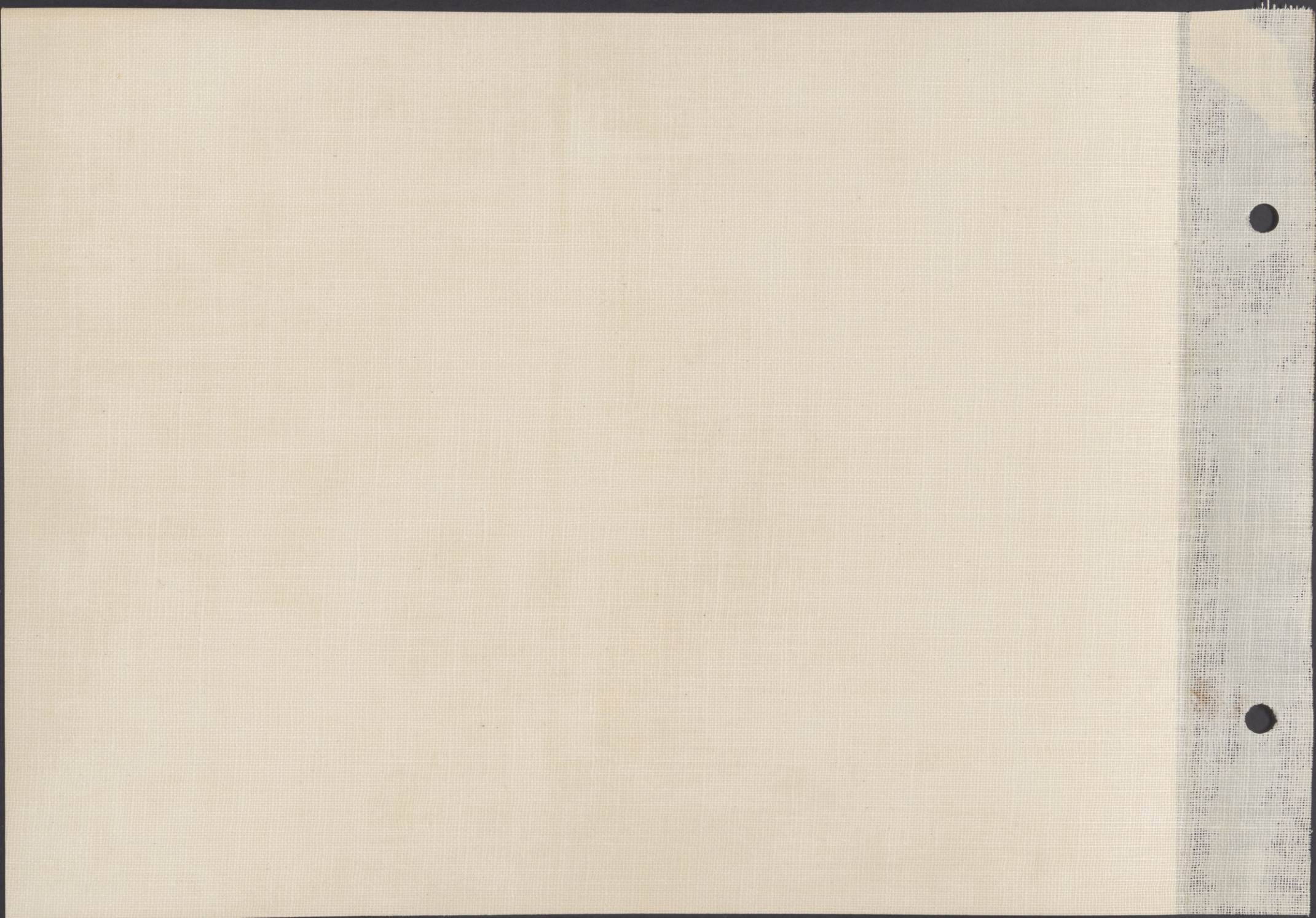


*Caenbach*  
Photo

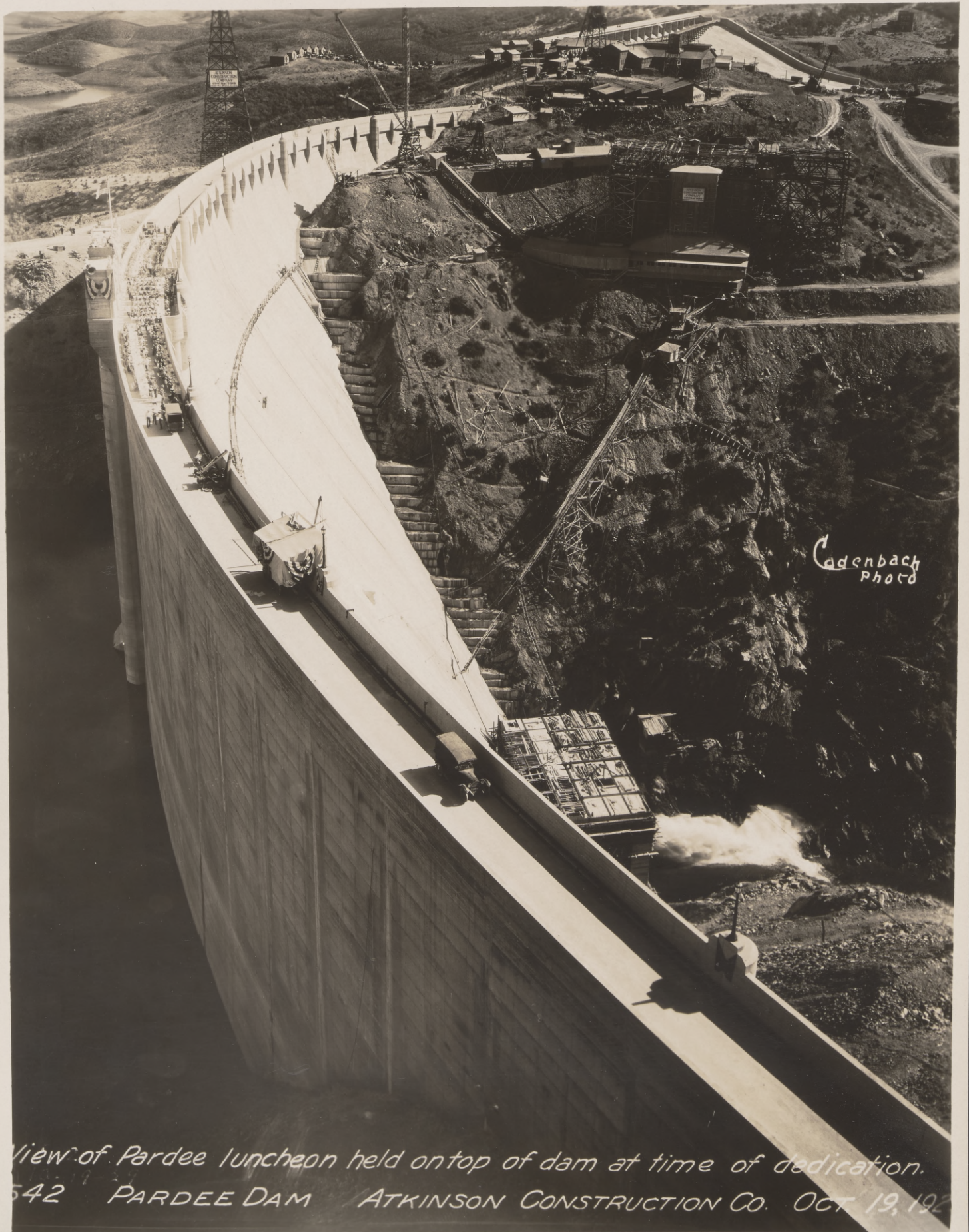
*Closeup of powerhouse construction showing roof slab forms under construction.*

*541 PARDEE DAM ATKINSON CONSTRUCTION CO. OCTOBER 18, 1929*





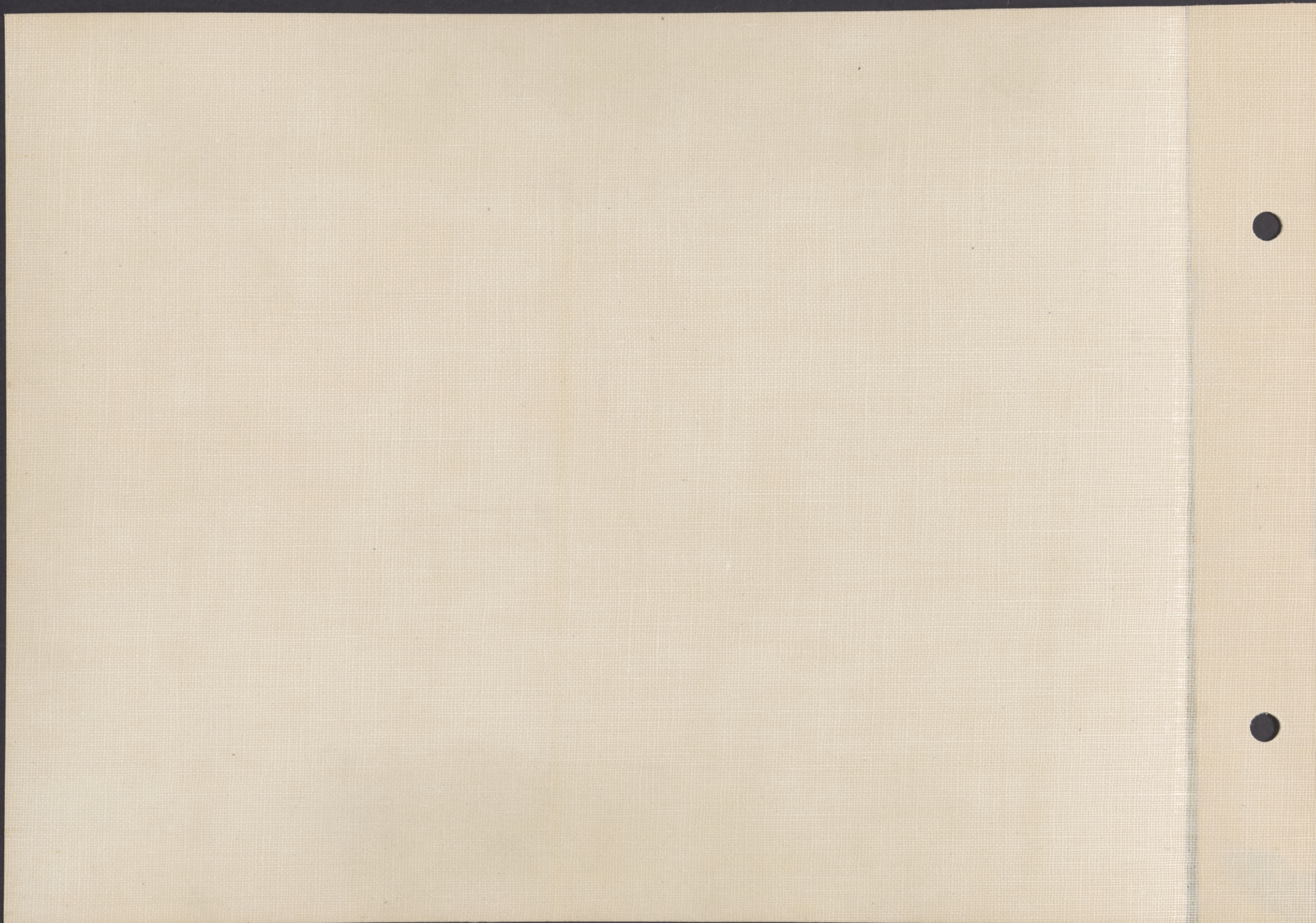




Cadenbach  
Photo

View of Pardee luncheon held on top of dam at time of dedication.  
542 PARDEE DAM ATKINSON CONSTRUCTION CO. OCT. 19, 1922





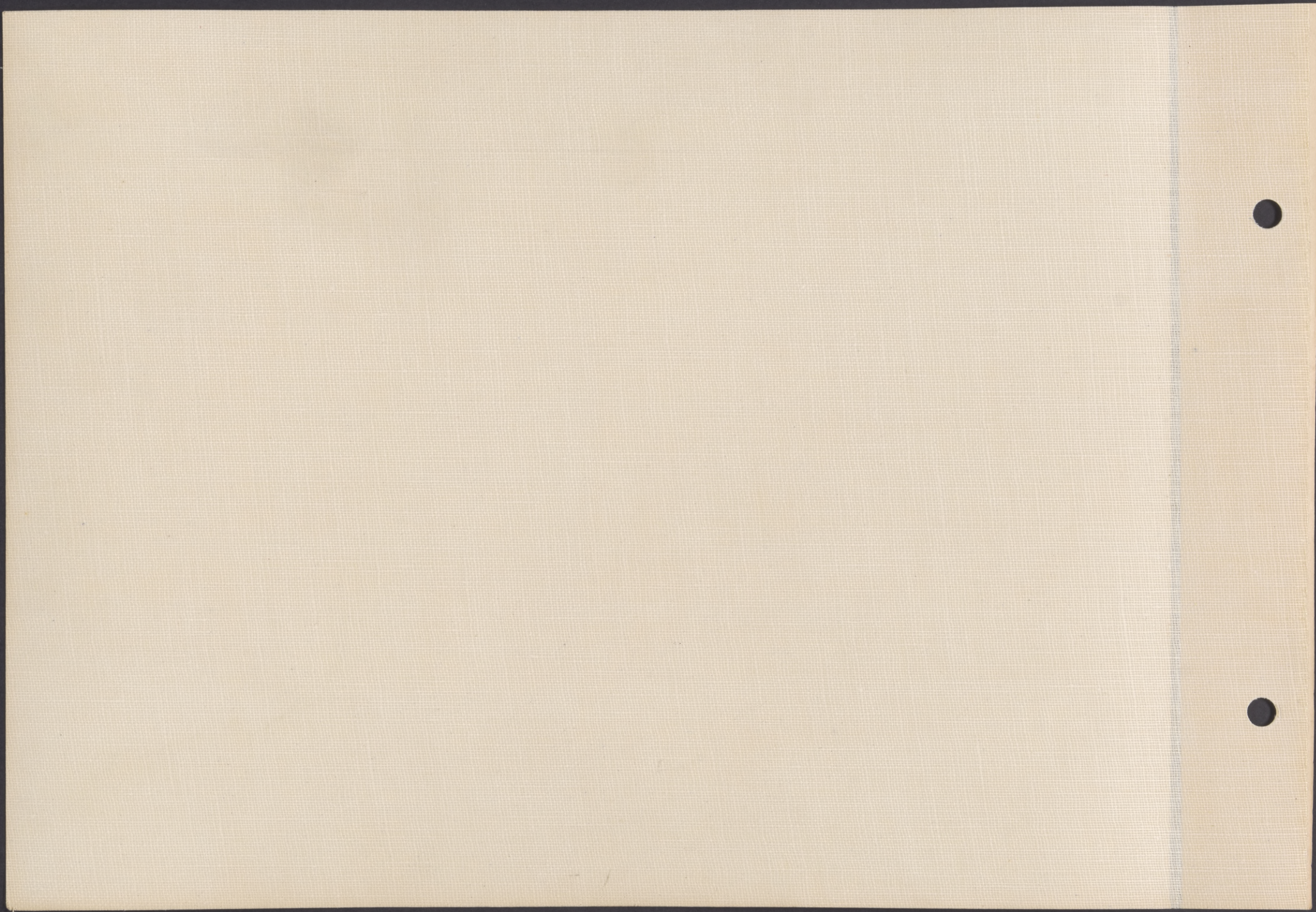


Closeup of the "DAM" luncheon at time of dedication.  
543 PARDEE DAM ATKINSON CONSTRUCTION CO. OCT. 19, 1929

Cagenbach  
Photo







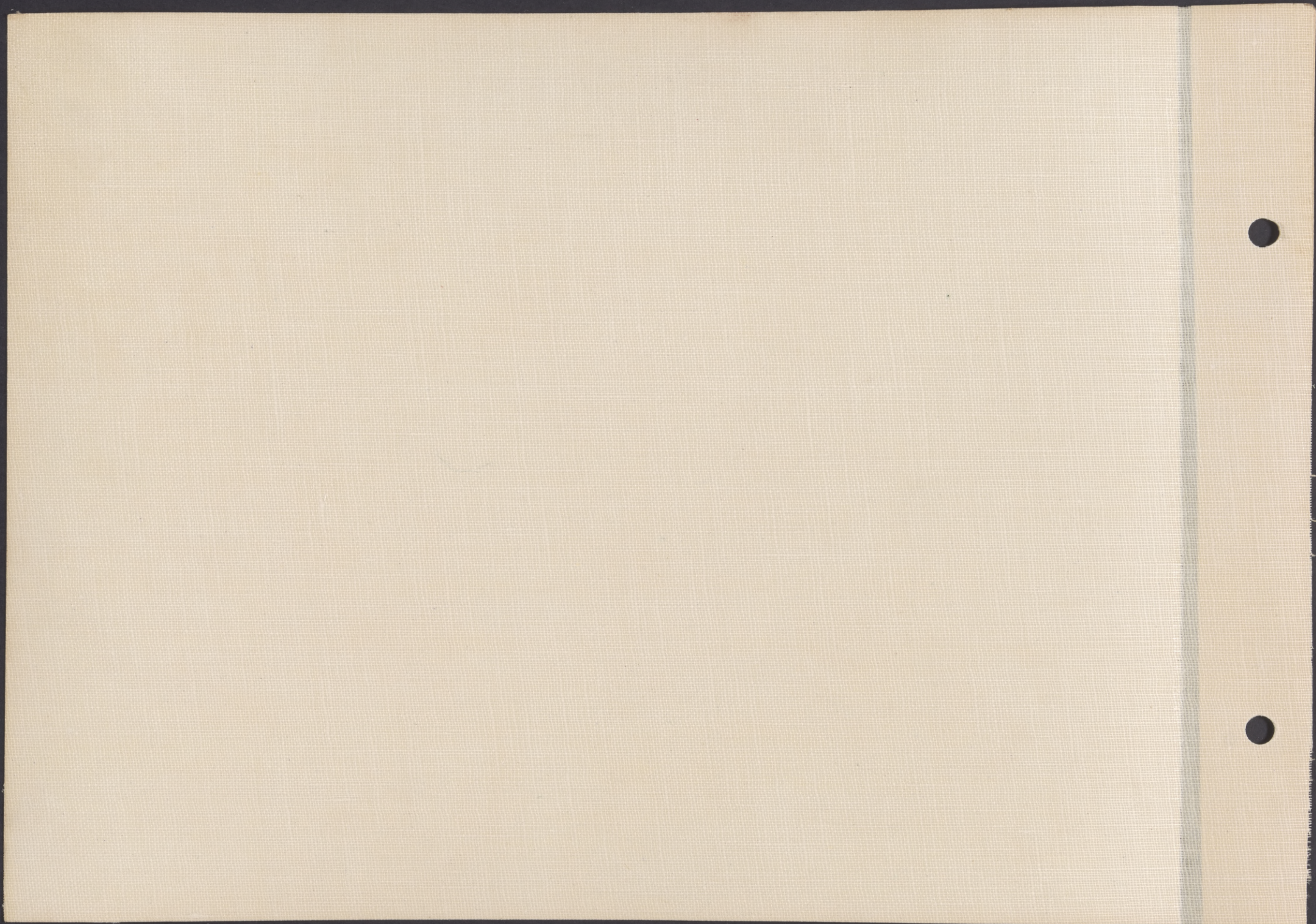




*View of construction operations from airplane at time of Pardee Dam luncheon and dedication showing spillway and water storage.*

554 PARDEE DAM ATKINSON CONSTRUCTION CO. OCTOBER 19, 1929





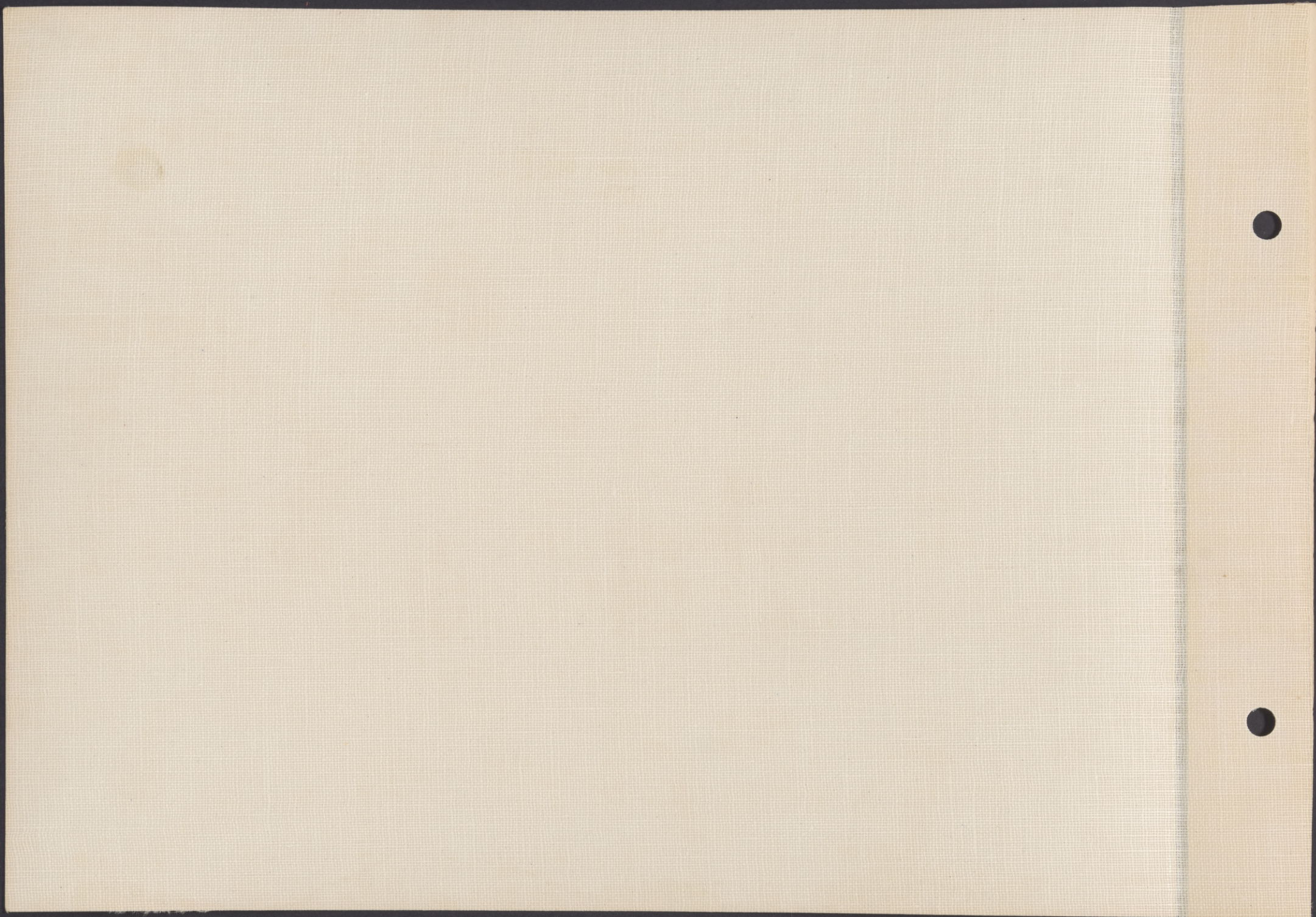




*Downstream side of Pardee dam from airplane showing the "Dam" luncheon in progress on top of dam.*

555 PARDEE DAM KINSON CONSTRUCTION CO. OCTOBER 19, 1929





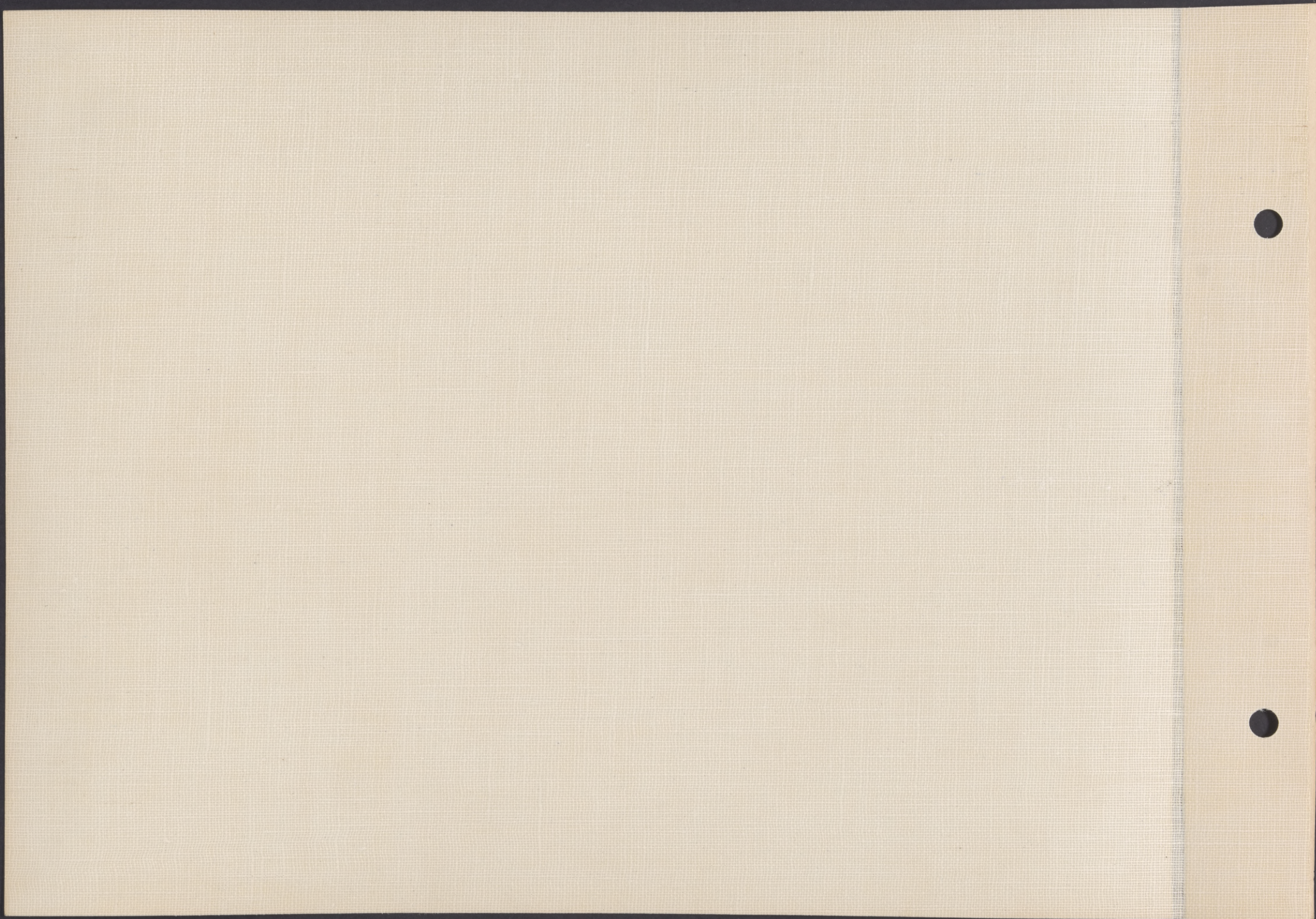




*Airplane view of reservoir showing dam and spillway at left.*

557 PARDEE DAM ATKINSON CONSTRUCTION CO. OCTOBER 19, 1929









*Airplane view of downstream side of Pardee Dam taken by aviator on day of luncheon  
and dedication, showing reservoir storage above dam and river channel below powerhouse*

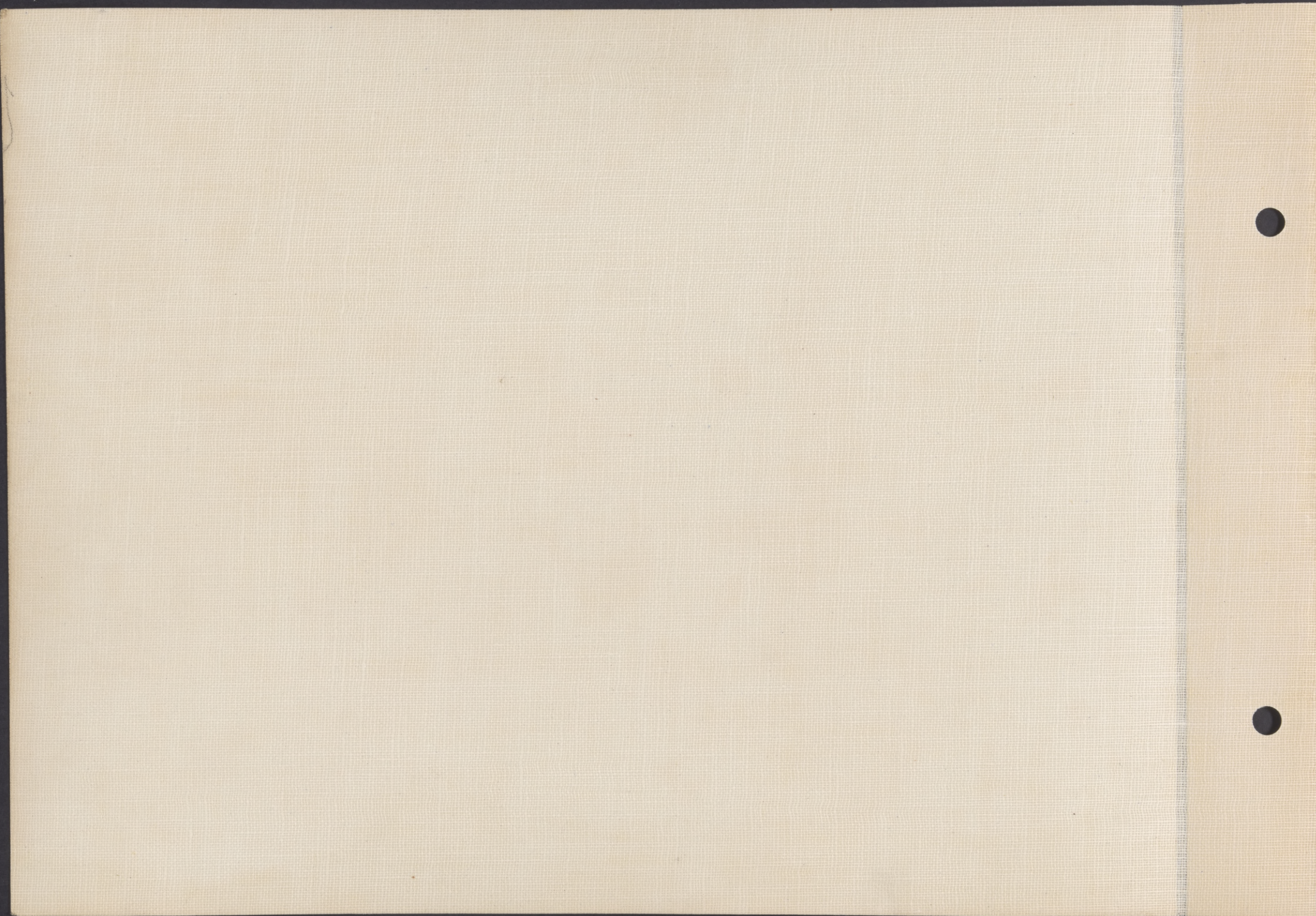
558

PARDEE DAM

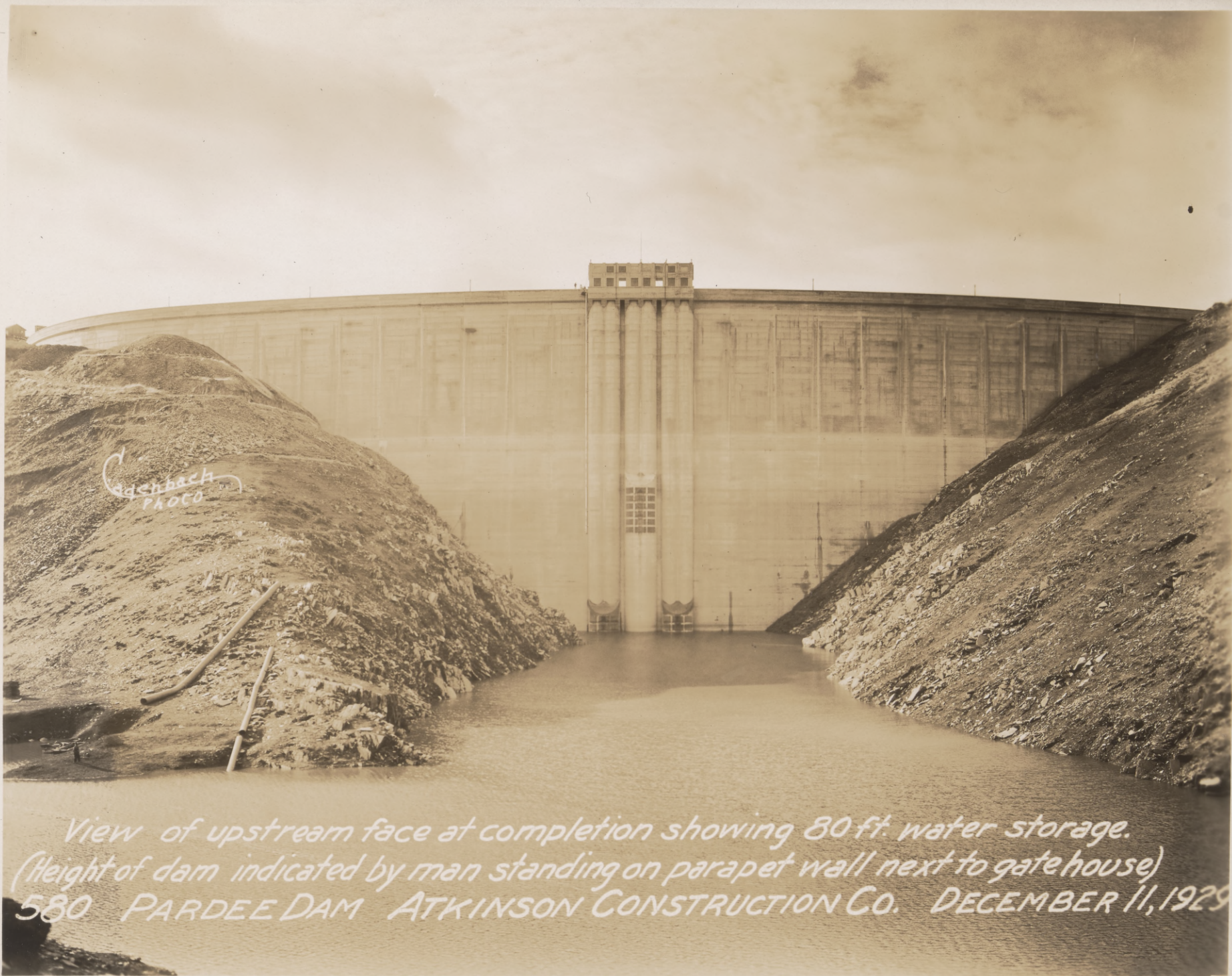
ATKINSON CONSTRUCTION CO.

OCTOBER 19, 1929



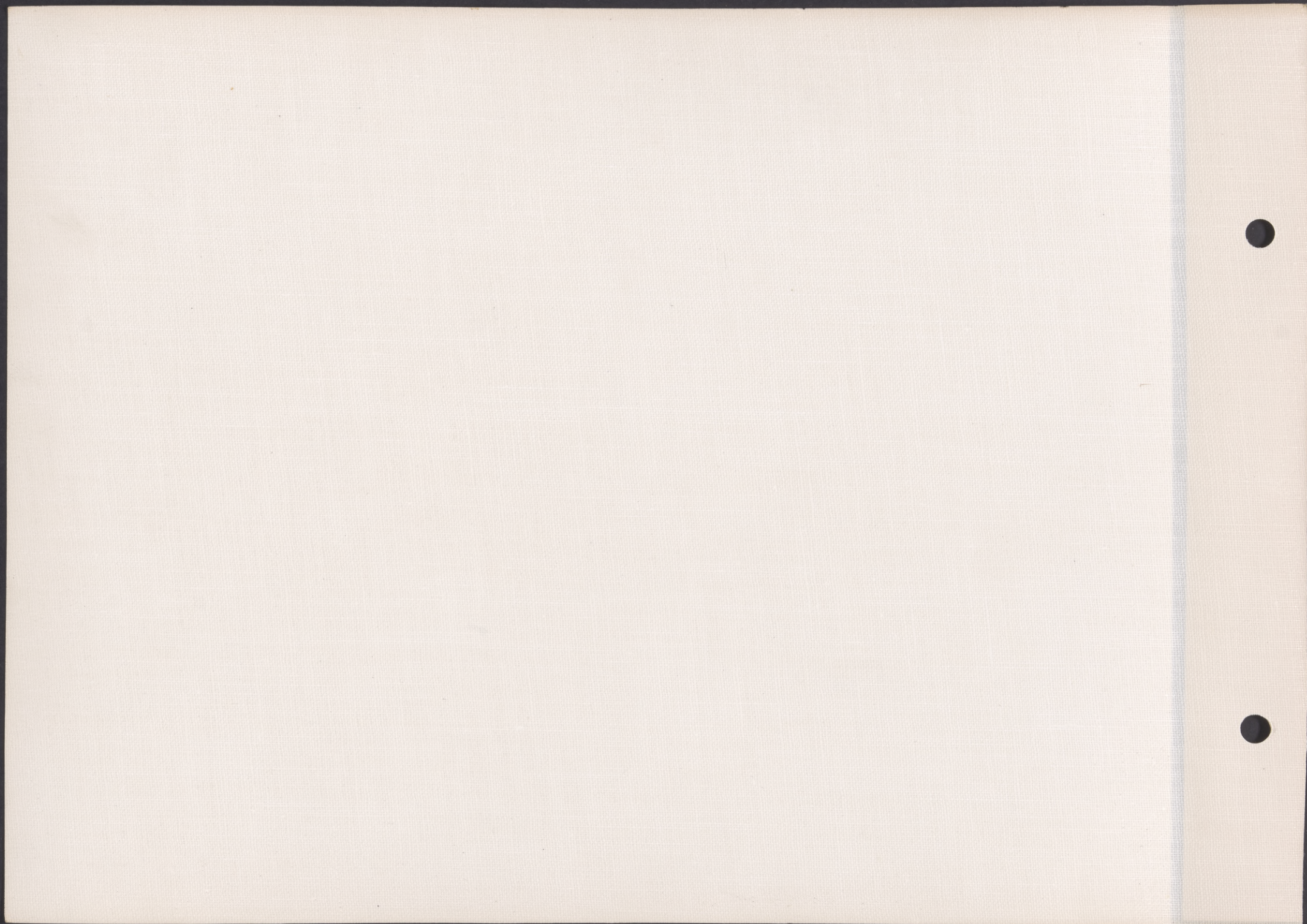






*View of upstream face at completion showing 80 ft. water storage.  
(Height of dam indicated by man standing on parapet wall next to gate house)  
580 PARDEE DAM ATKINSON CONSTRUCTION CO. DECEMBER 11, 1929*









Gadenbach  
Photo

View across rear of Pardee dam from south bank, showing gatehouse.  
582 PARDEE DAM ATKINSON CONSTRUCTION CO. DECEMBER 14, 1929









View across rear of Pardee Dam from south bank, showing gatehouse.  
583 PARDEE DAM ATKINSON CONSTRUCTION CO. DECEMBER 14, 1929









Cadenbach  
PHOTO

Panorama showing downstream face of dam, powerhouse and spillway at completion.  
586 PARDEE DAM. ATKINSON CONSTRUCTION CO. DECEMBER 14, 1929









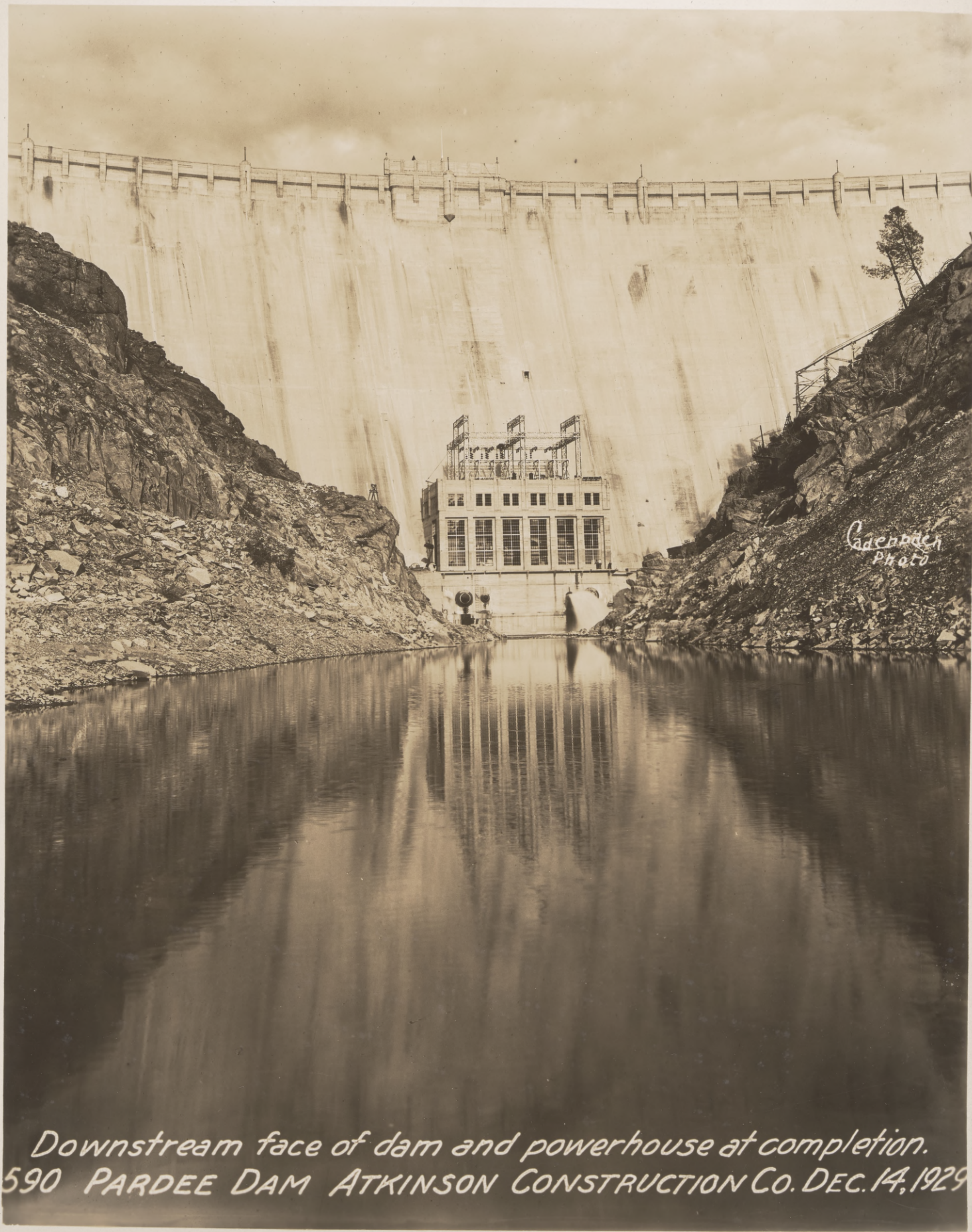
Caenbac  
Photo

Pardee Dam powerhouse.  
587 PARDEE DAM ATKINSON CONSTRUCTION CO. DEC. 14, 1929





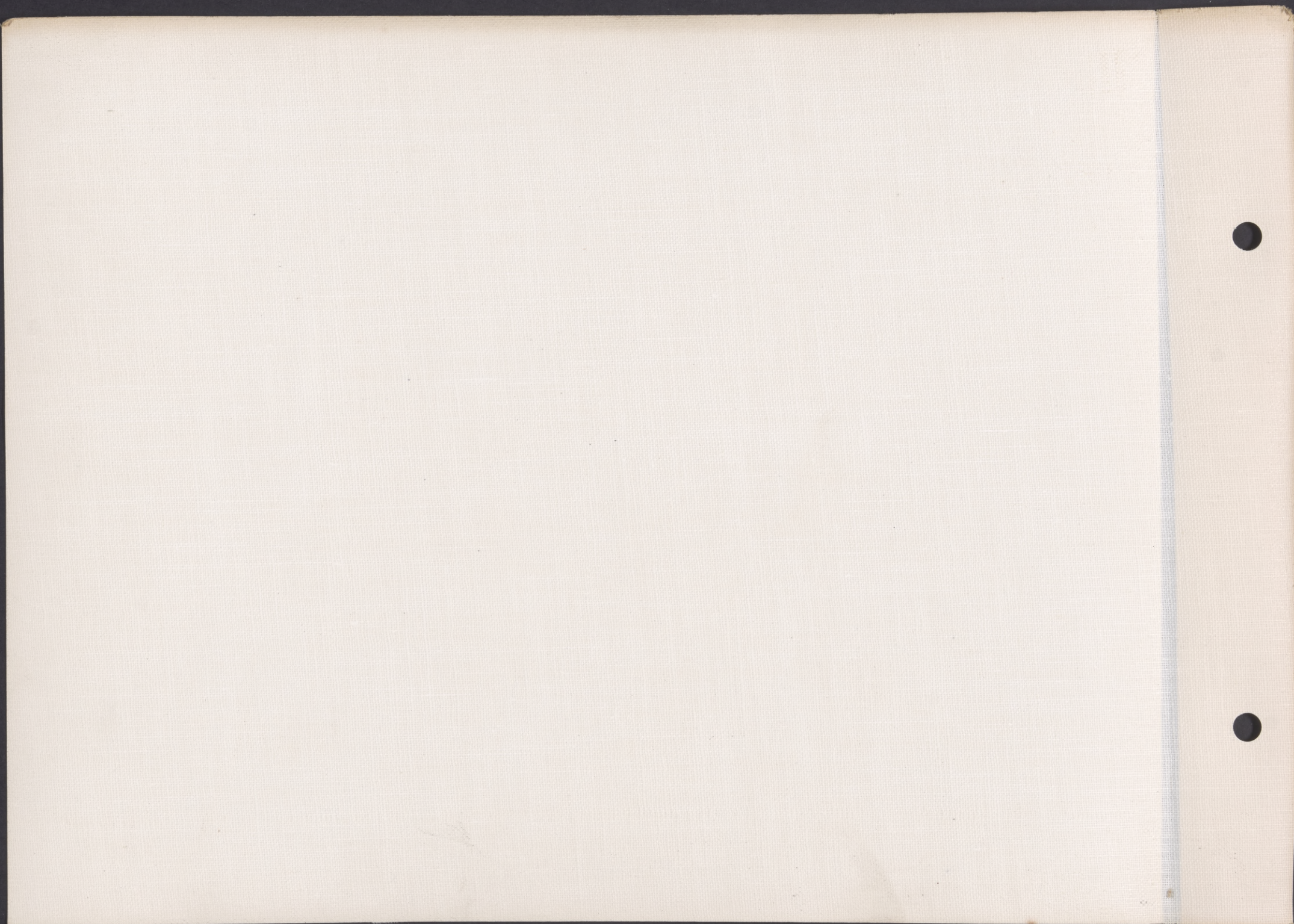




Cadenbach  
Photo

*Downstream face of dam and powerhouse at completion.  
590 PARDEE DAM ATKINSON CONSTRUCTION CO. DEC. 14, 1929*









*Downstream face of dam and powerhouse at completion.  
591 PARDEE DAM ATKINSON CONSTRUCTION CO. DECEMBER 14, 1929*







# THE PARDEE DAM

BUILT BY  
THE EAST BAY MUNICIPAL UTILITY DISTRICT  
INCLUDING THE CITIES ON THE EASTERLY SIDE OF THE BAY OF SAN FRANCISCO  
ALAMEDA-ALBANY-BERKELEY-EL CERRITO-EMERYVILLE  
OAKLAND-PIEDMONT-RICHMOND-SAN LEANDRO  
FOR THE PURPOSE OF CREATING A STORAGE RESERVOIR AND WATER SUPPLY SYSTEM

## BOARD OF DIRECTORS

GEORGE C. PARDEE  
PRESIDENT

ALFRED LATHAM VICE PRESIDENT

HENRY A. JOHNSTON GRANT D. MILLER FRANK D. STRINGHAM

## FORMER DIRECTORS

DAVID P. BARROWS 1924 TO 1928 JAMES H. BOYER 1923 TO 1928  
LOUIS BARTLETT 1923 TO 1924 MARSTON CAMPBELL 1923 TO 1924  
W.J. LOCKE - ATTORNEY 1923 TO 1925

## PERSONNEL

F. W. HANNA  
CHIEF ENGINEER AND GENERAL MANAGER  
JOHN H. KIMBALL  
SECRETARY

THEODORE P. WITTSCHEN  
ATTORNEY  
DANIEL READ  
TREASURER

ARTHUR P. DAVIS CHIEF ENGINEER 1924 TO 1929  
F. W. HANNA DESIGNER  
T. L. E. HAUG ASSISTANT DESIGNER  
JAMES MUNN CONSTRUCTION ENGINEER  
W. S. CONE ELECTRICAL ENGINEER  
C. E. GRUNSKY, JR. DIVISION ENGINEER  
E. L. MACDONALD RESIDENT ENGINEER

## CONSULTING ENGINEERS

GEORGE W. GOETHALS WILLIAM MULHOLLAND  
C. E. GRUNSKY

ATKINSON CONSTRUCTION COMPANY  
LYNN ATKINSON W. A. KETTLEWELL GUY F. ATKINSON  
CONTRACTORS AND CONSTRUCTORS  
PERSONNEL

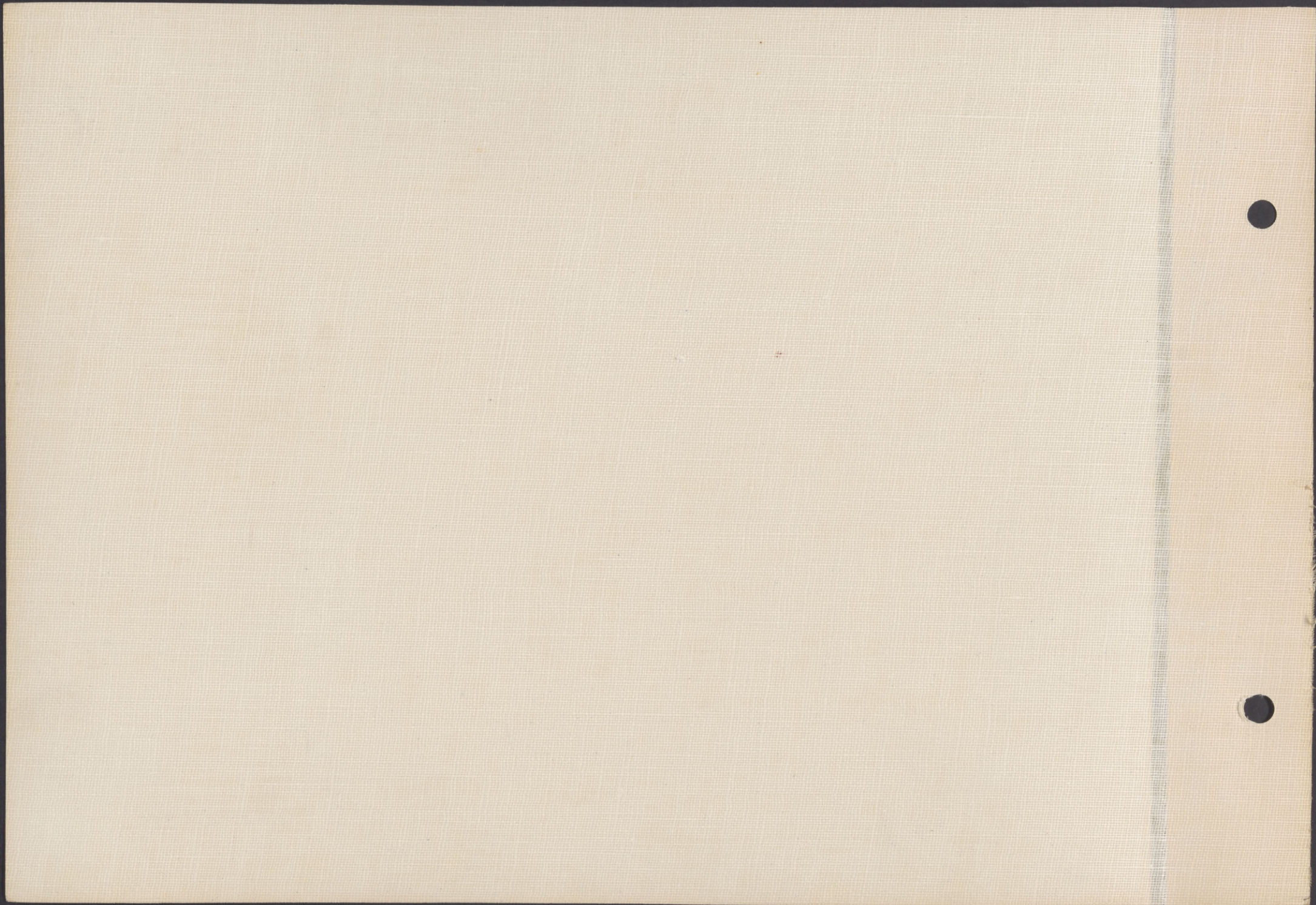
E. M. WHIPPLE GENERAL SUPT. EARMY STOKES CARPENTRY SUPT.  
JACK BROTON CONCRETE SUPT. JOHN STANDISH RIGGING SUPT.  
JACK SINFIELD EXCAVATION SUPT. HARRY THOMPSON TRAMWAY SUPT.  
R. W. HELMLE CHIEF MECHANIC. W. H. RALPH CONTRACTORS ENGR.  
MAX CAZIN GRAVEL PLANT SUPT. R. H. NORTH CUTT CHIEF TIMEKEEPER.  
A. F. DUNPHY OFFICE MANAGER. H. B. HULL AUDITOR.

DATE WORK COMMENCED JULY 1927  
FIRST CONCRETE PLACED DECEMBER 1927  
DAM CONSTRUCTION COMPLETED JULY 1929  
ELEVATION OF BASE OF DAM 222 FEET ABOVE SEA LEVEL  
ELEVATION OF PARAPET WALL 580 FEET ABOVE SEA LEVEL  
HEIGHT ABOVE BEDROCK IN RIVER BED 358 FEET  
THICKNESS OF DAM AT BASE 241 FEET  
RESERVOIR CAPACITY 222,000 ACRE FEET  
FOUNDATION ROCK EXCAVATION 153,000 CUBIC YARDS  
TOTAL CONCRETE PLACED IN STRUCTURE 615,000 CUBIC YARDS  
TOTAL OVERALL LENGTH OF TOP OF DAM 1,337 FEET

DEDICATED OCTOBER 19, 1929

C. C. YOUNG  
GOVERNOR  
STATE OF CALIFORNIA



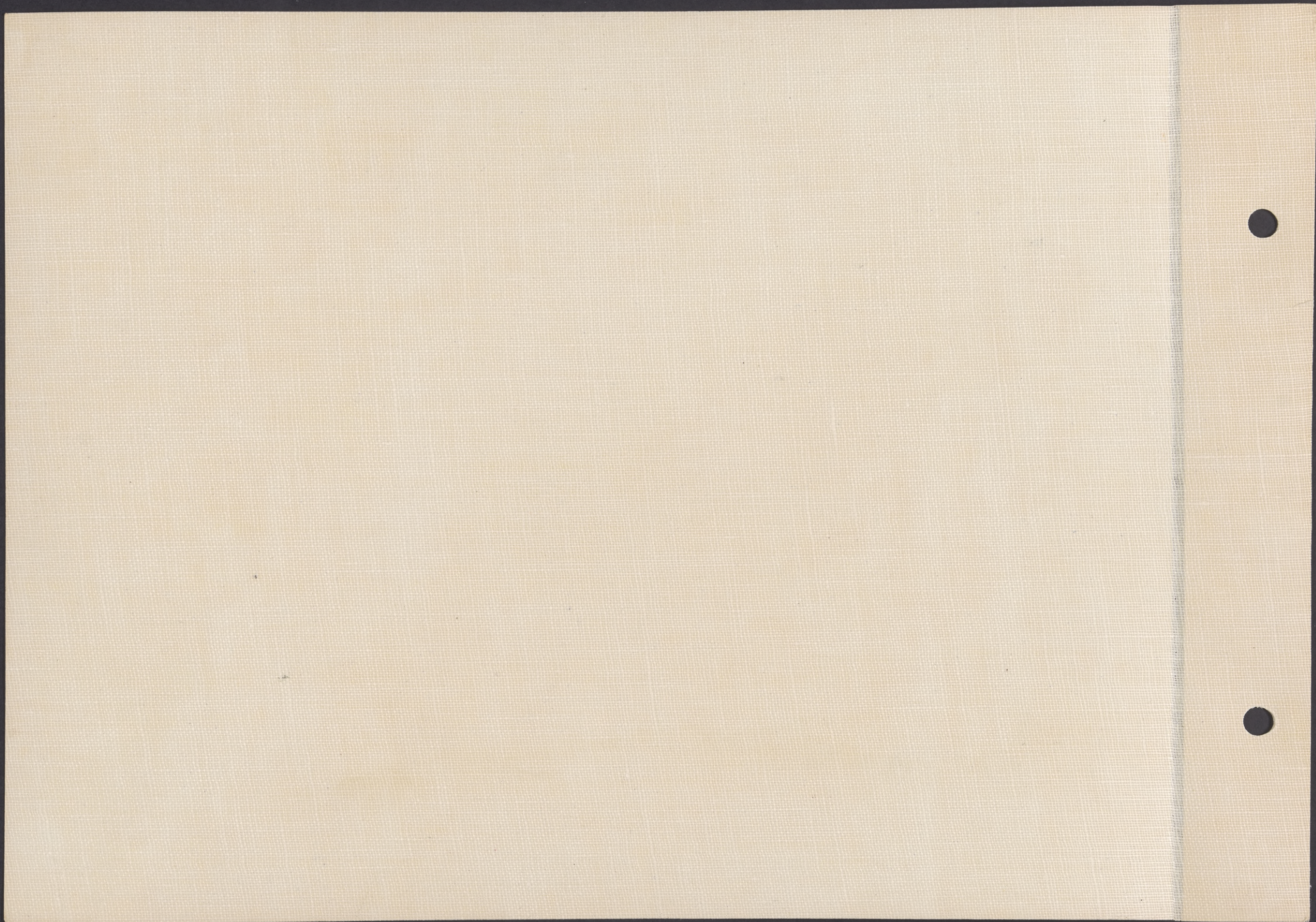






VIEW OF SPILLWAY EXCAVATION OPERATIONS.  
S-394 PARDEE DAM ATKINSON CONSTRUCTION CO. NOV. 22 1928









GENERAL VIEW OF SPILLWAY EXCAVATION - NEW RAILROAD TRESTLE ACROSS SPILLWAY  
CONSTRUCTED AT LEFT.

S-406

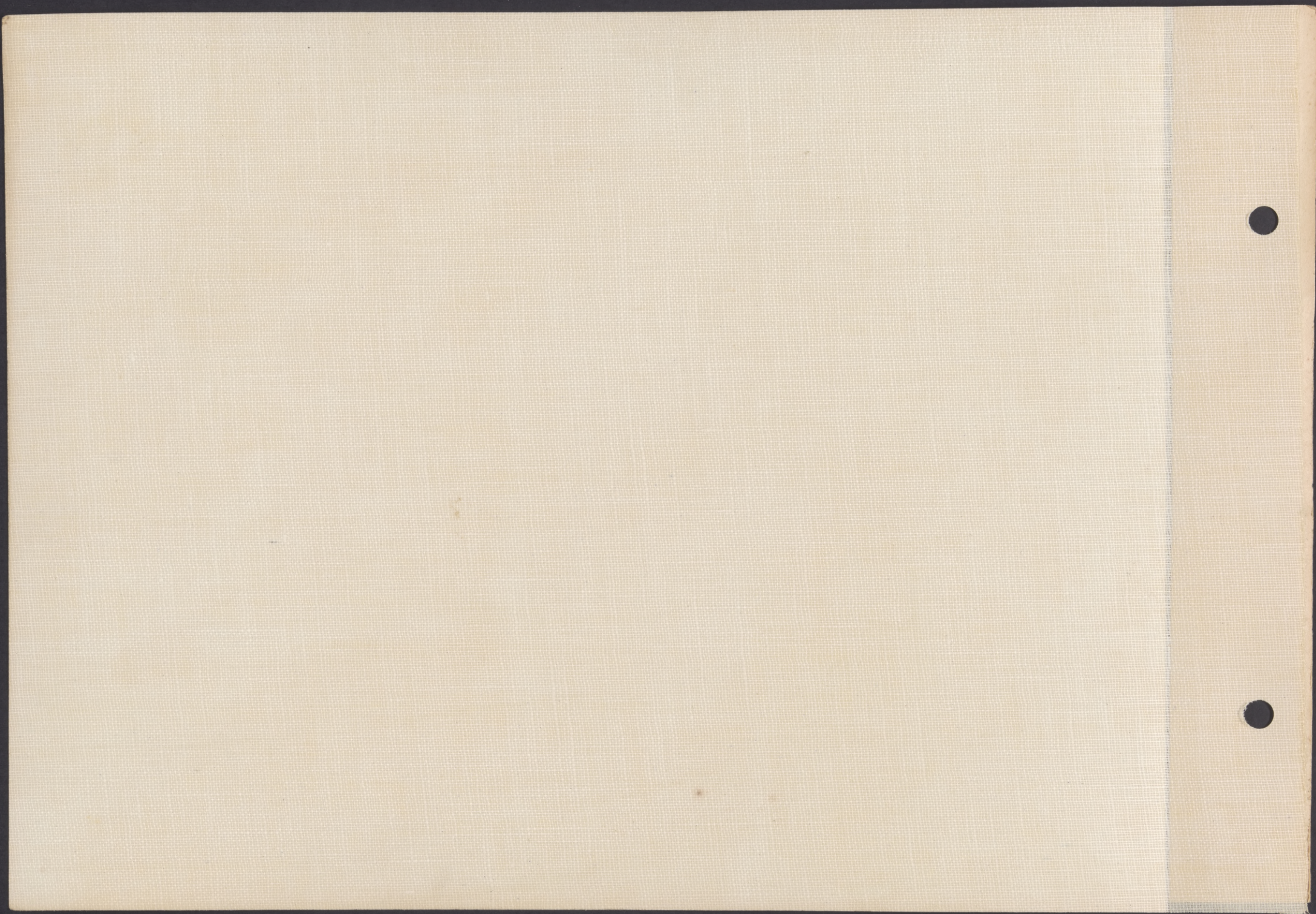
PARDES DAM

ATKINSON

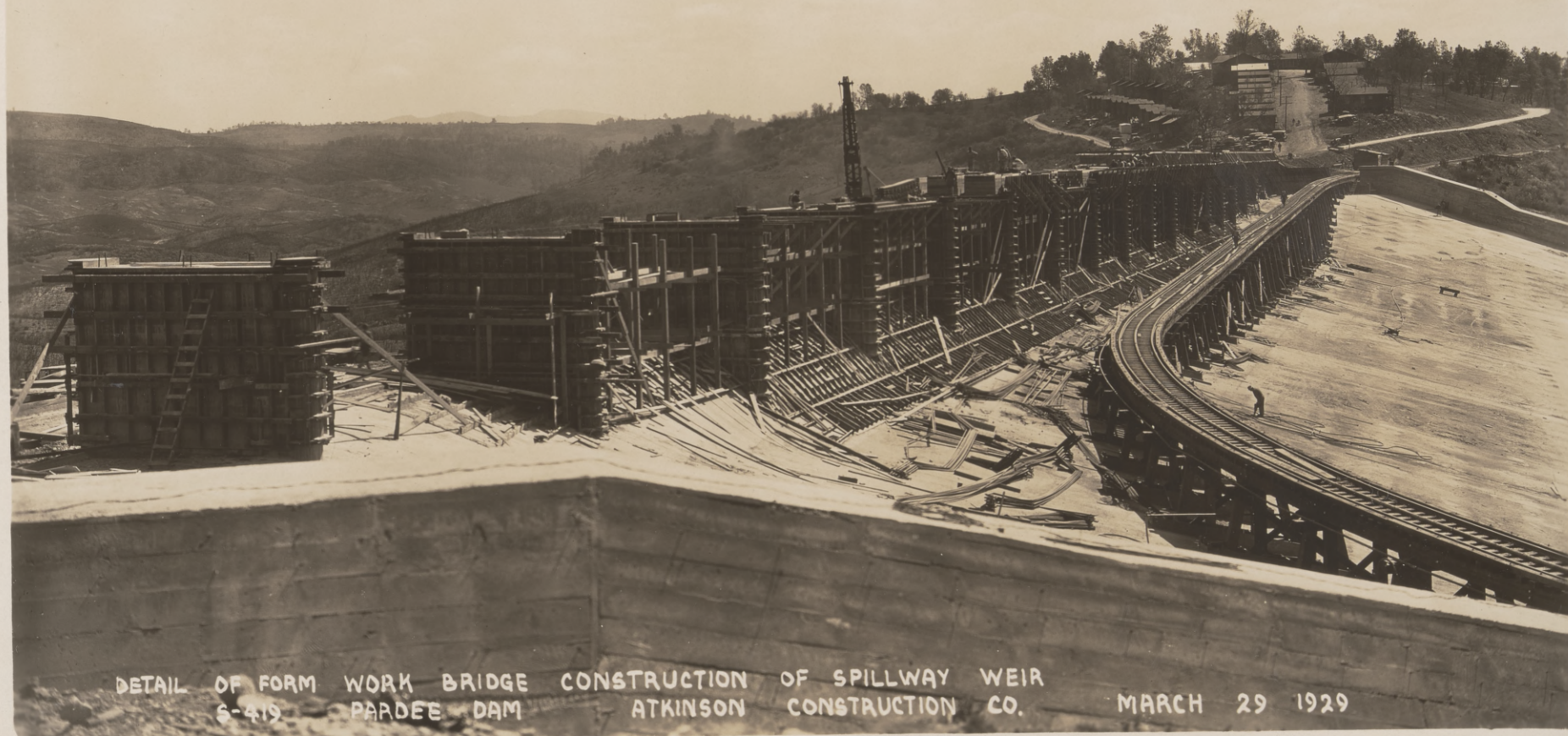
CONSTRUCTION CO.

DEC. 15 1928



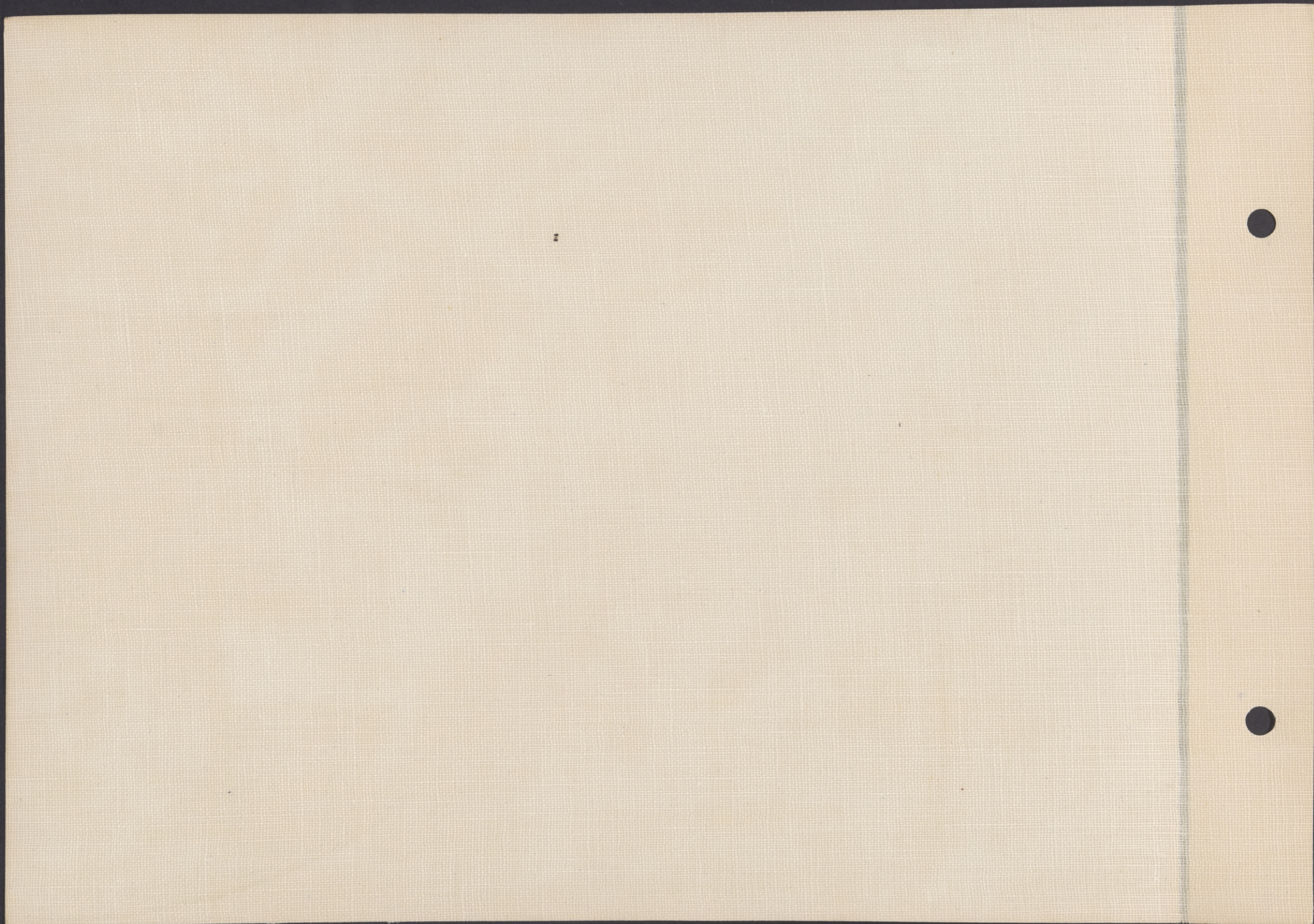




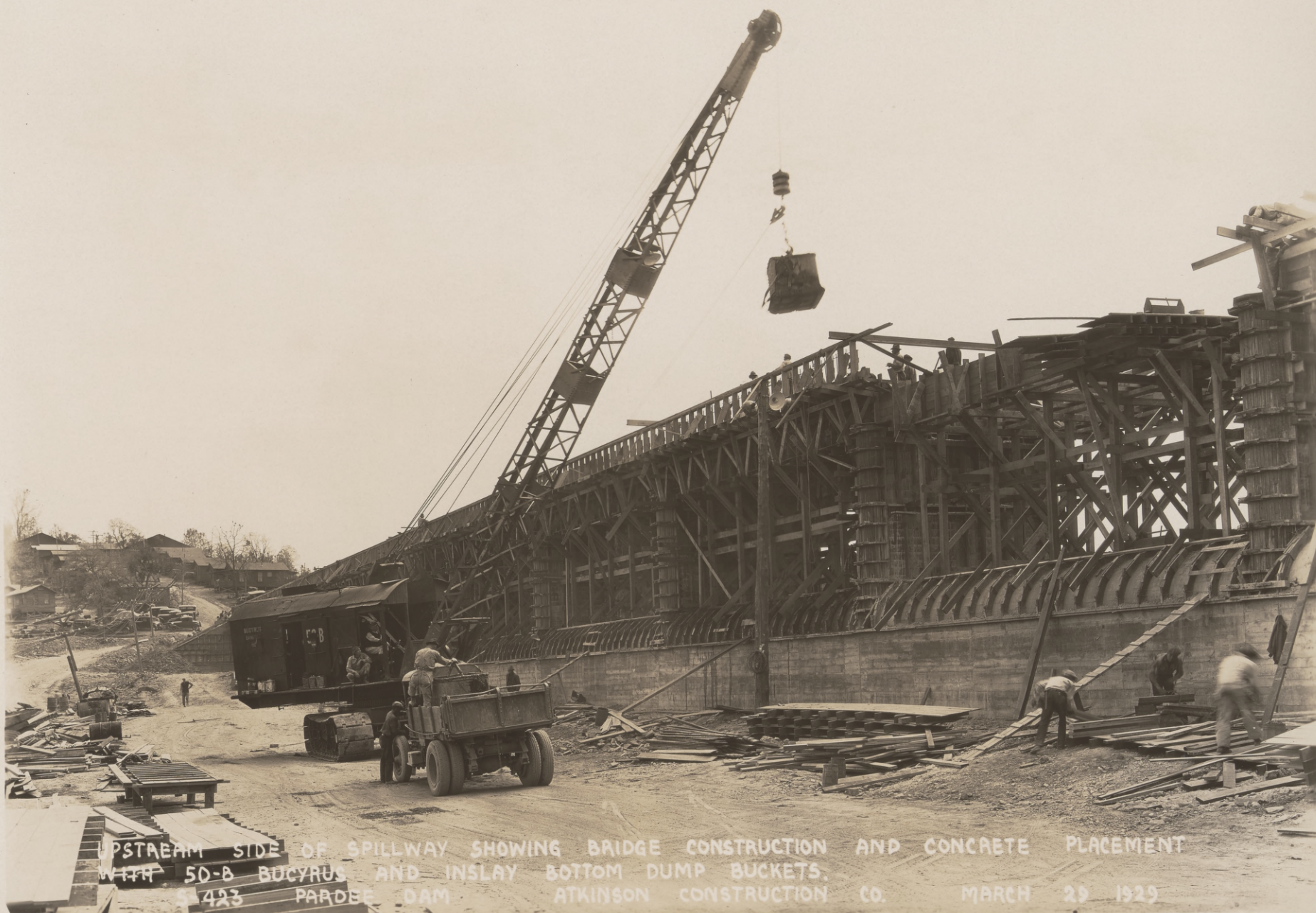


DETAIL OF FORM WORK BRIDGE CONSTRUCTION OF SPILLWAY WEIR  
6-419 PARDEE DAM ATKINSON CONSTRUCTION CO. MARCH 29 1929



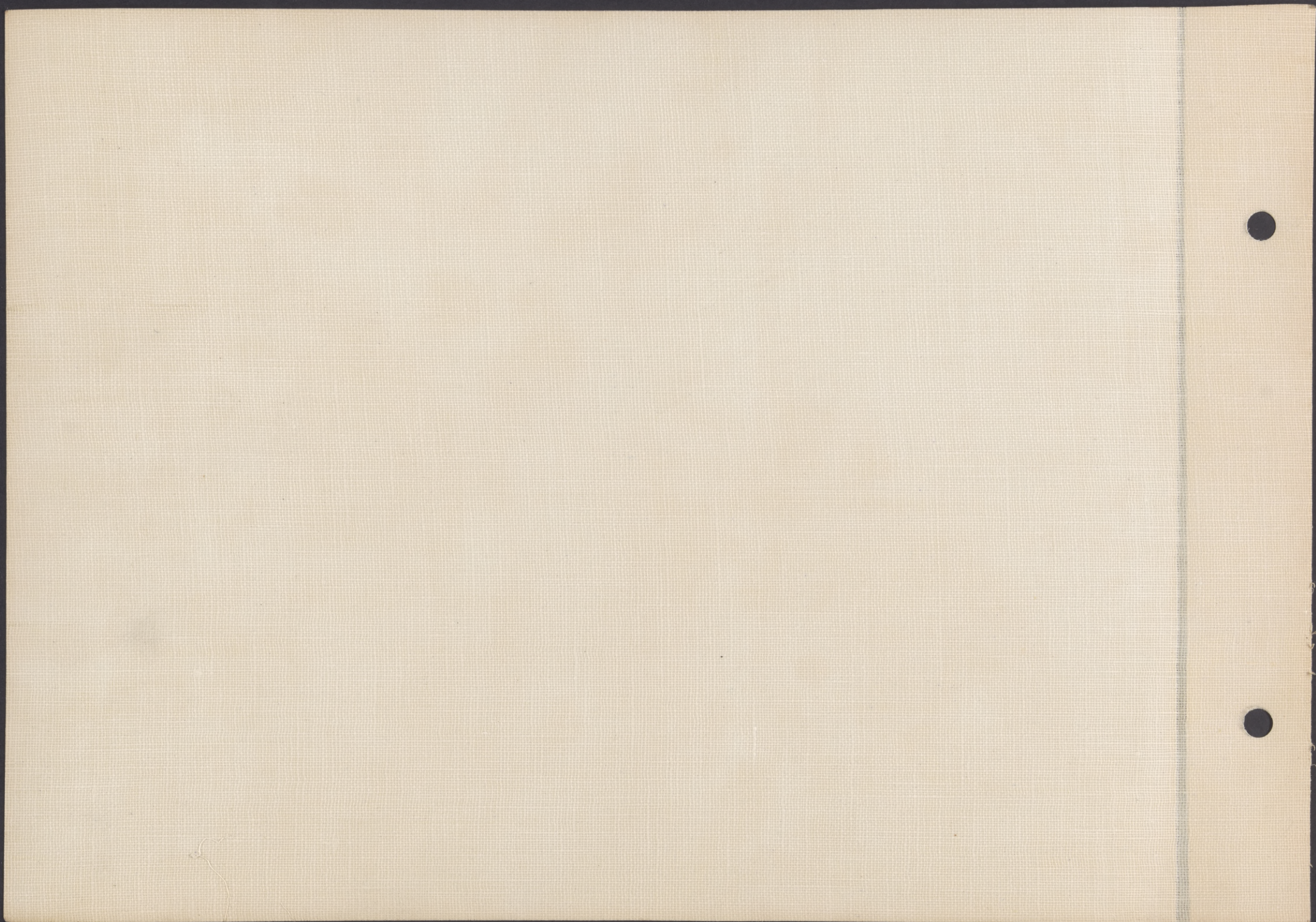






UPSTREAM SIDE OF SPILLWAY SHOWING BRIDGE CONSTRUCTION AND CONCRETE PLACEMENT  
WITH 50-B BUCYRUS AND INSLAY BOTTOM DUMP BUCKETS.  
S 423 PARDEE DAM ATKINSON CONSTRUCTION CO. MARCH 29 1929



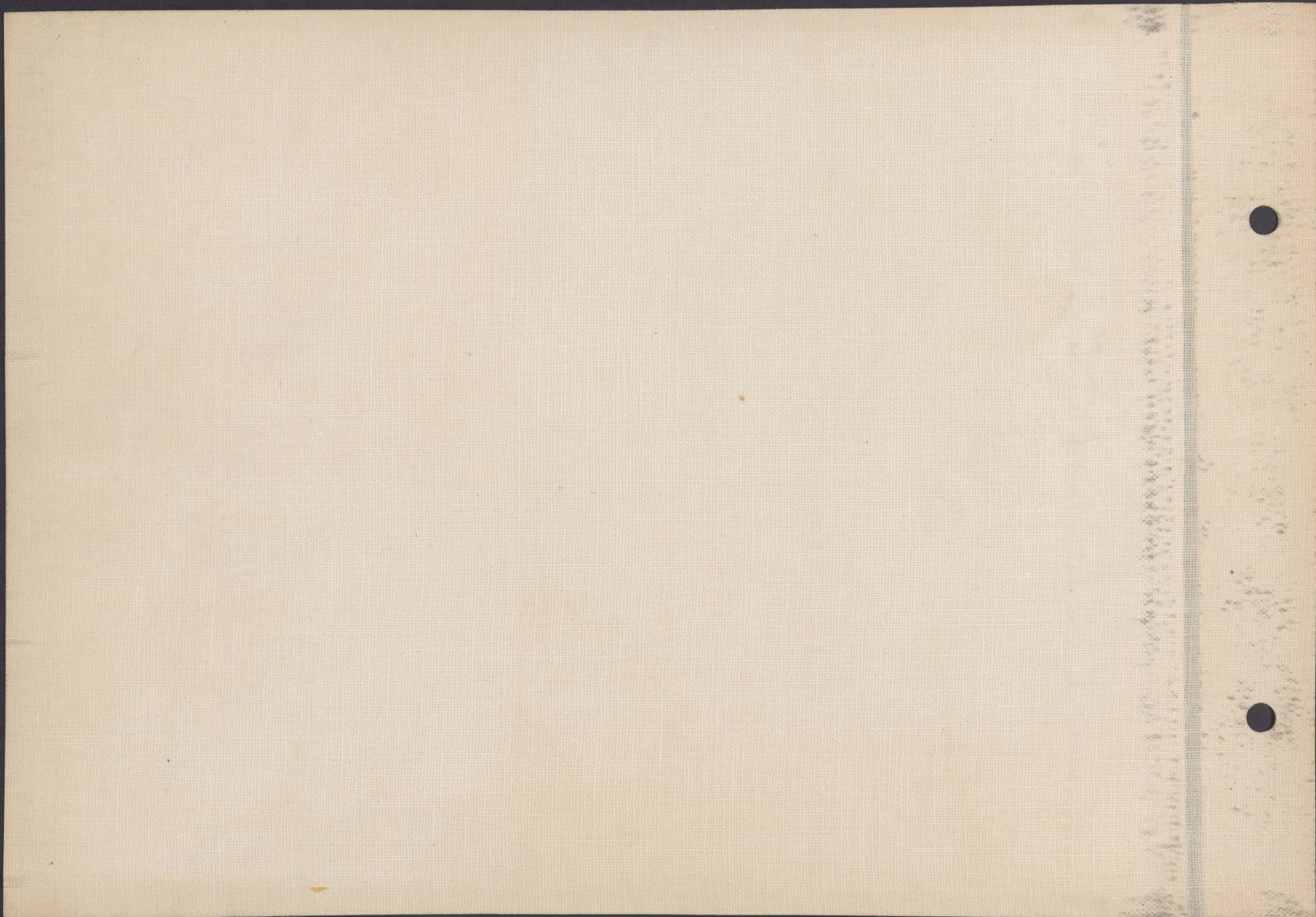






GENERAL VIEW OF COMPLETED SPILLWAY AND BRIDGE PRIOR TO REMOVAL OF RR TRESTLE  
S-465 PARDEE DAM ATKINSON CONSTRUCTION CO JUNE 6 1929









PARDEE PAVILION  
PROVIDED FOR THE USE  
OF VISITORS  
— BY THE —  
EAST BAY MUNICIPAL  
UTILITY DISTRICT



Paiute Spillway





Pardee Spillway













Paidel Dam







Paidel Da

Water from Paidel Lighthouse



















